

OPTICAL BIO-DISCS INCLUDING SPIRAL FLUIDIC CIRCUITS FOR PERFORMING
ASSAYS

Staimer, et al.

Appl. No.: Unknown Atty Docket: NAGACO.215A

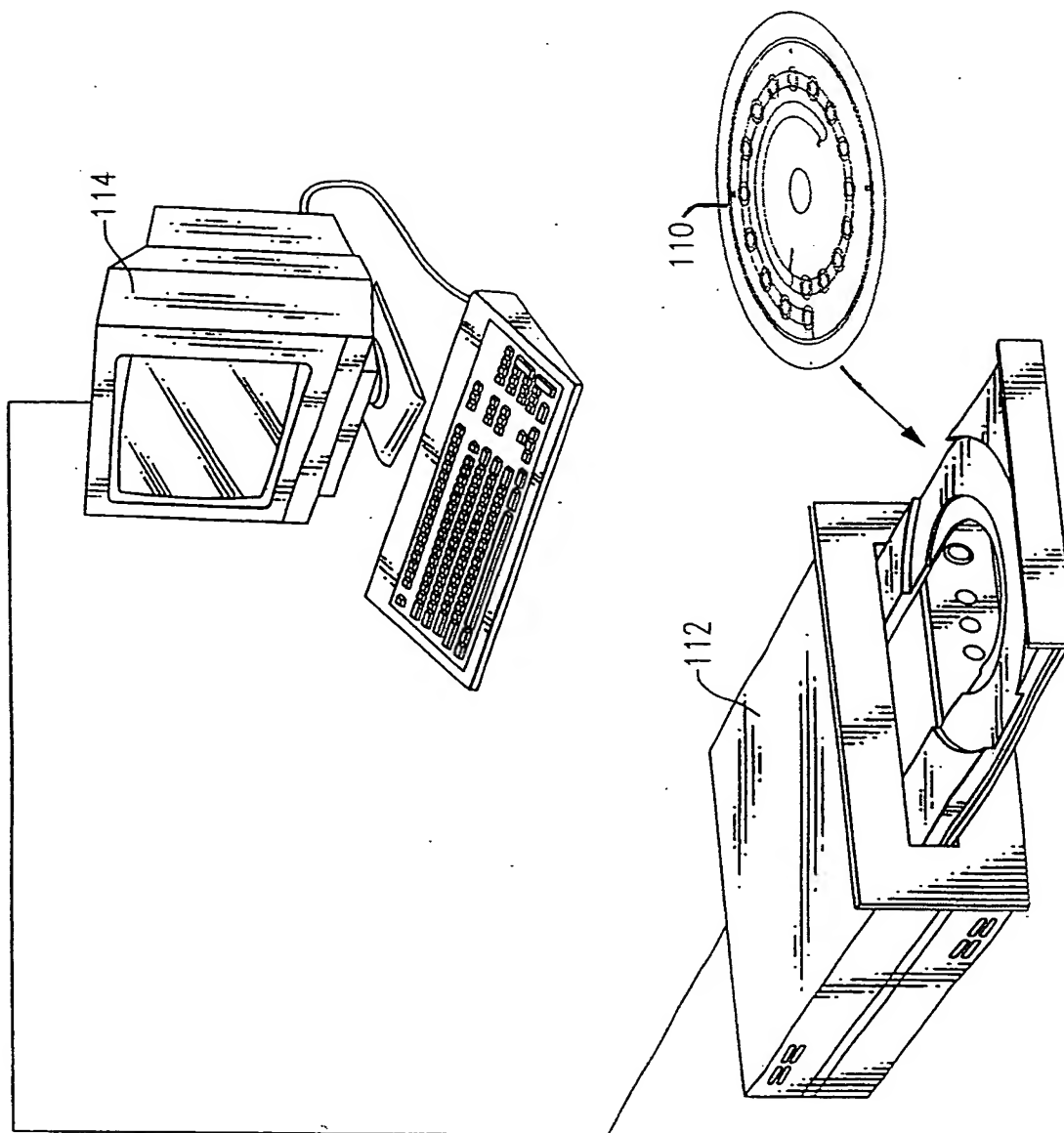
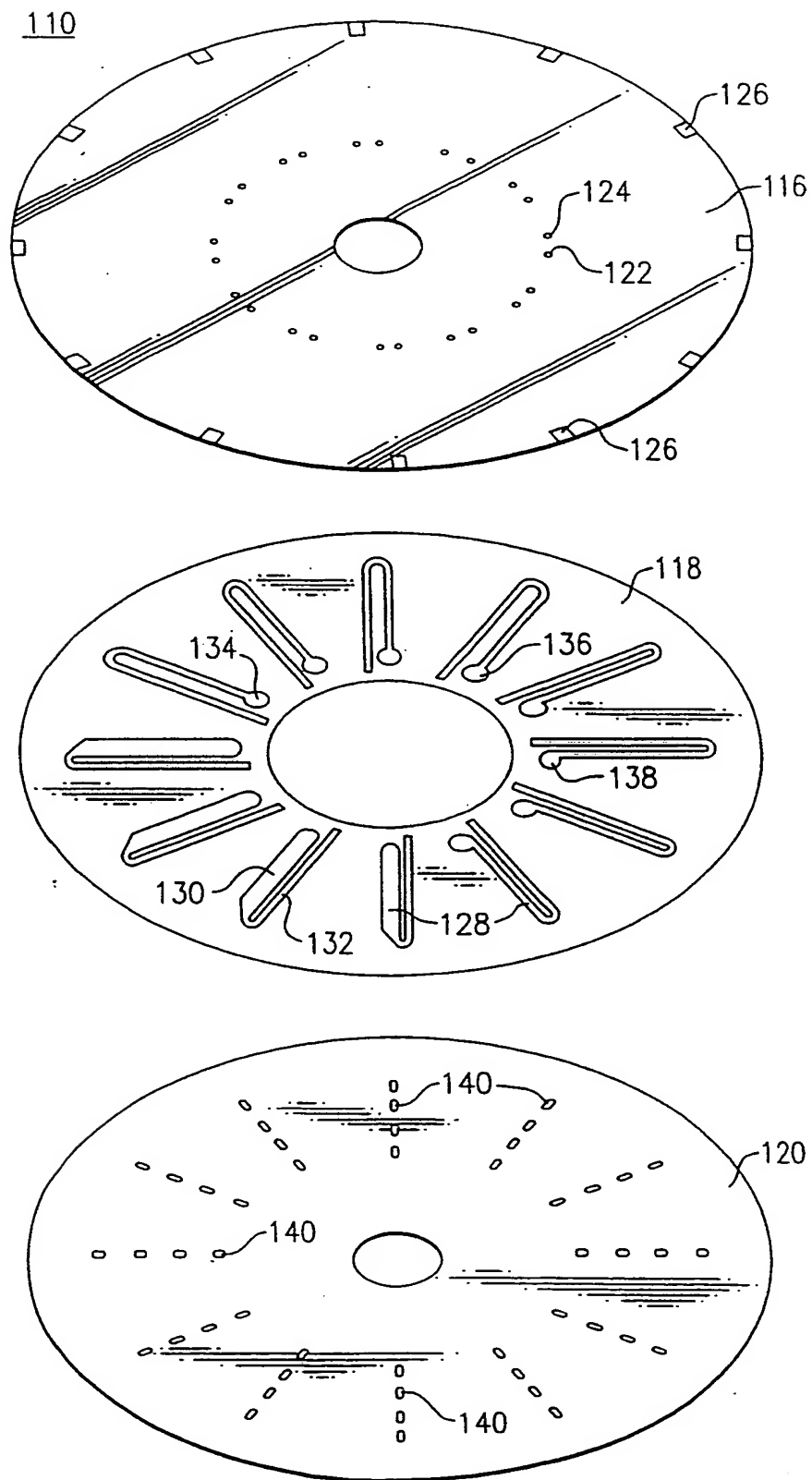


FIG. 1

FIG. 2



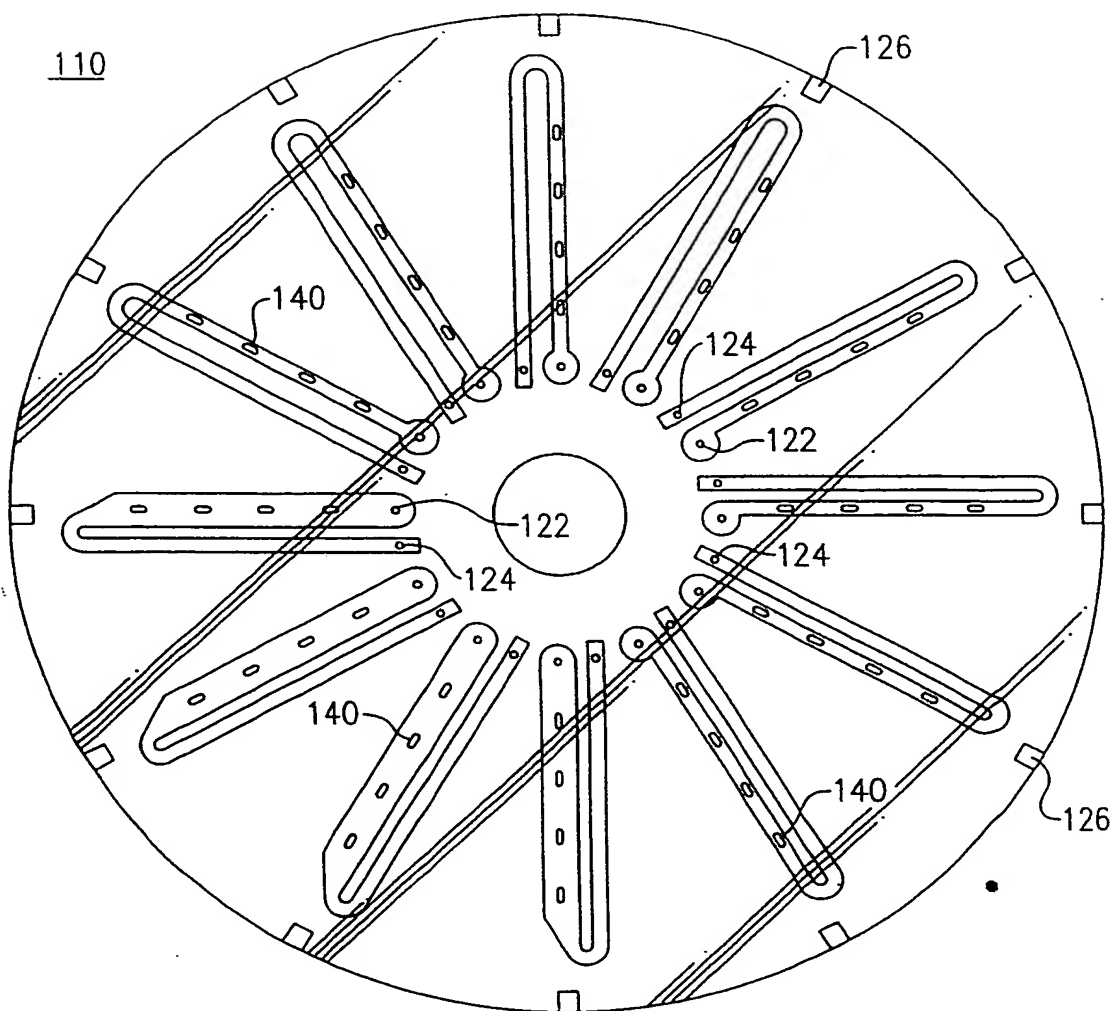


FIG.3

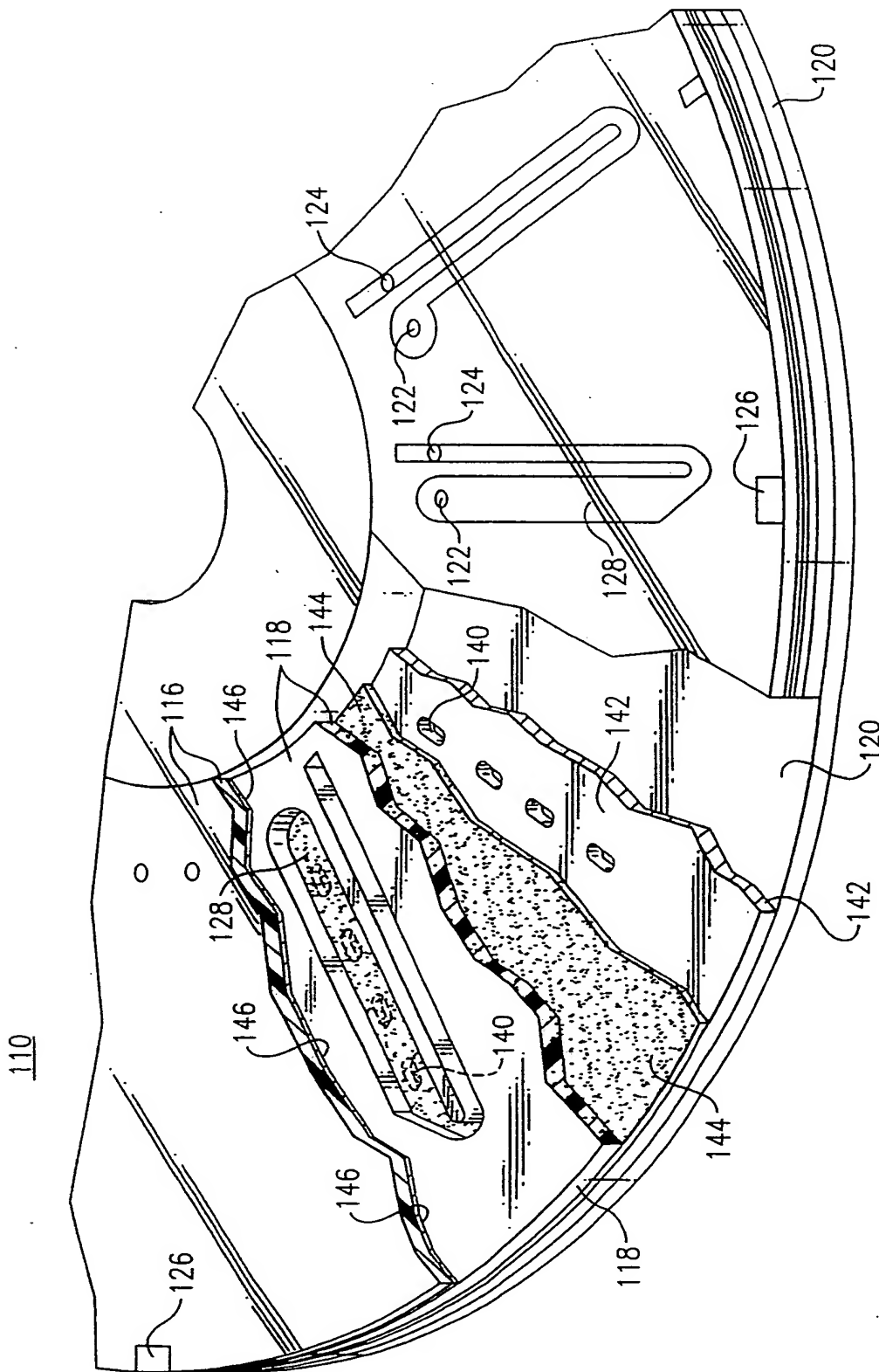
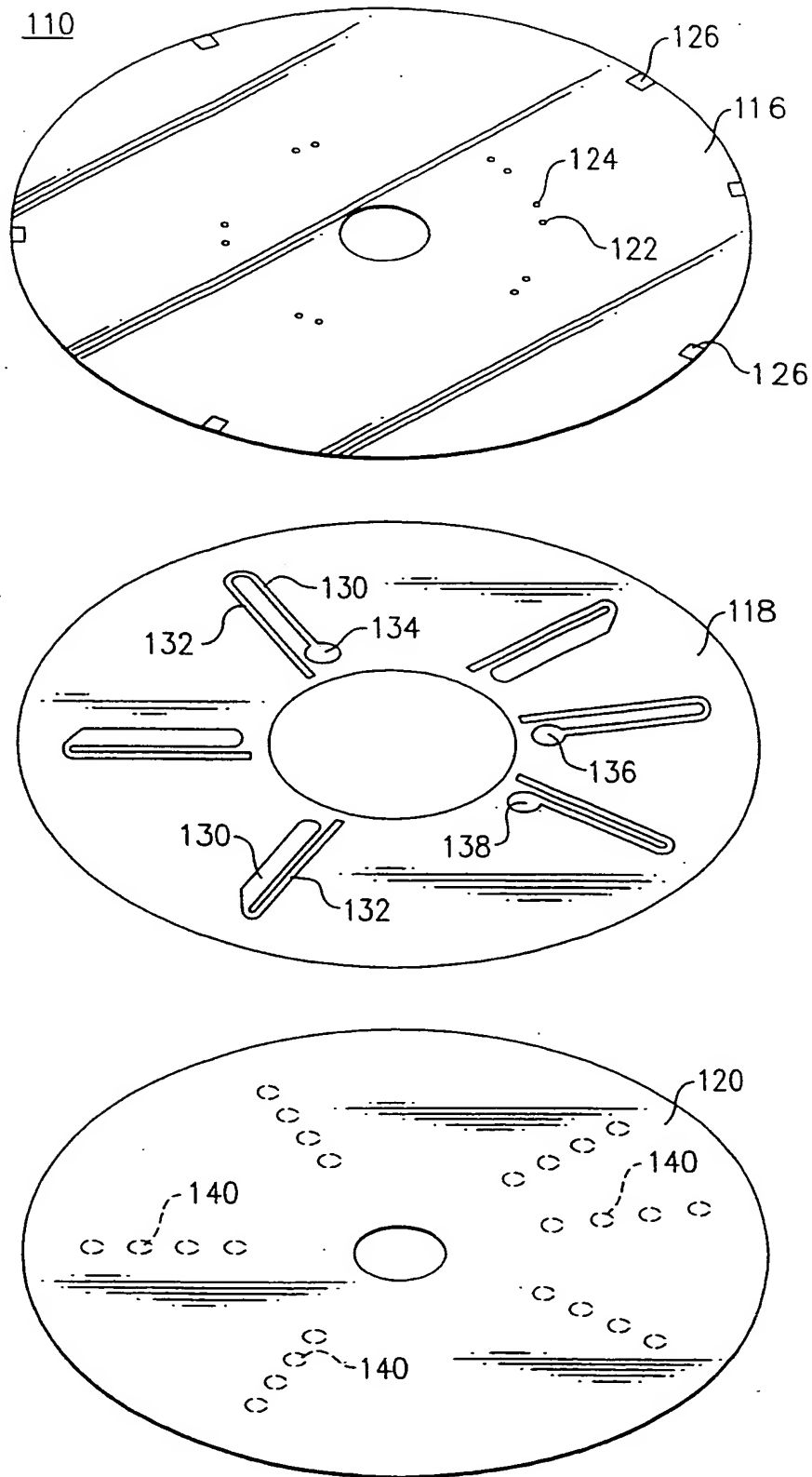
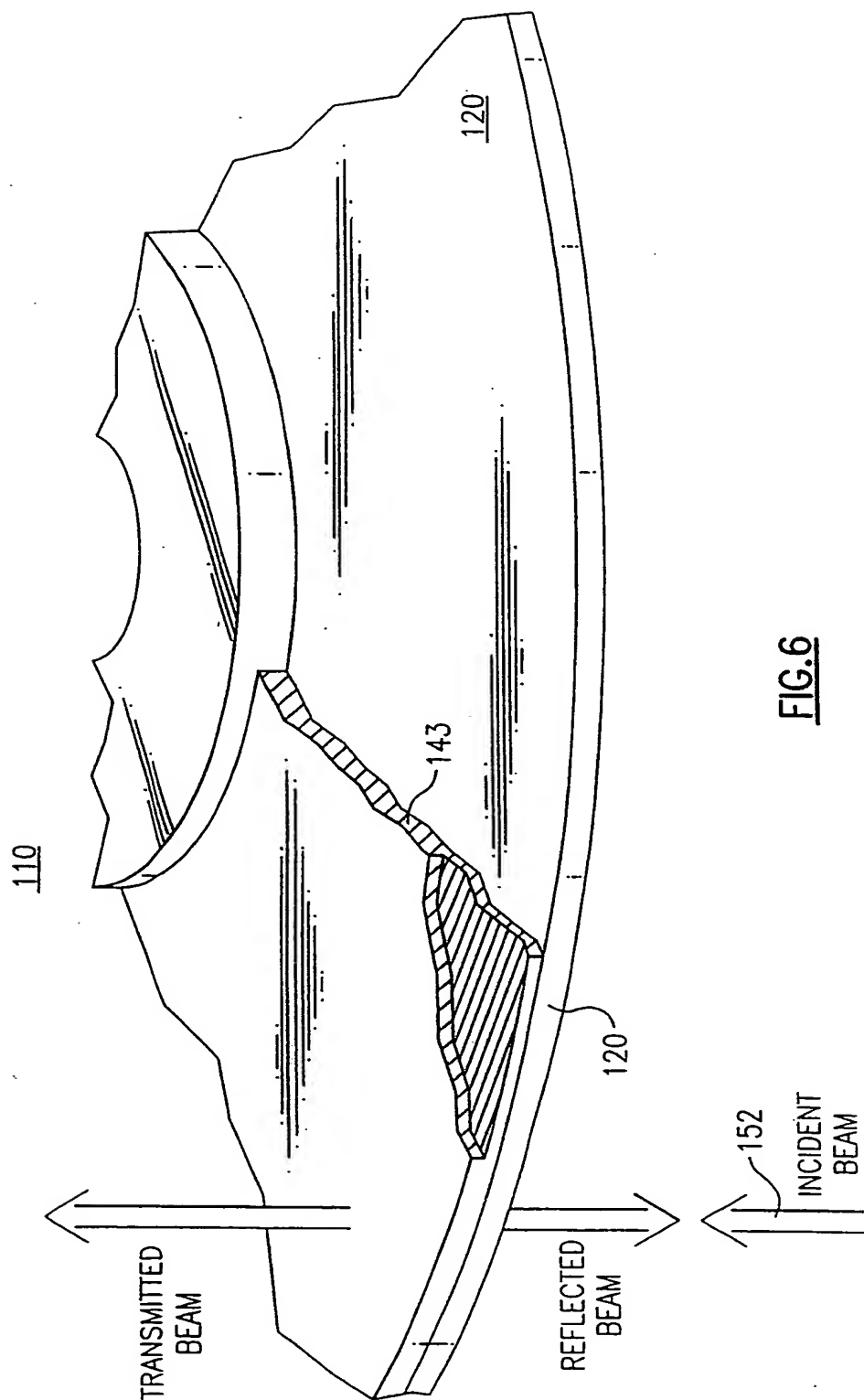


FIG. 4

FIG. 5





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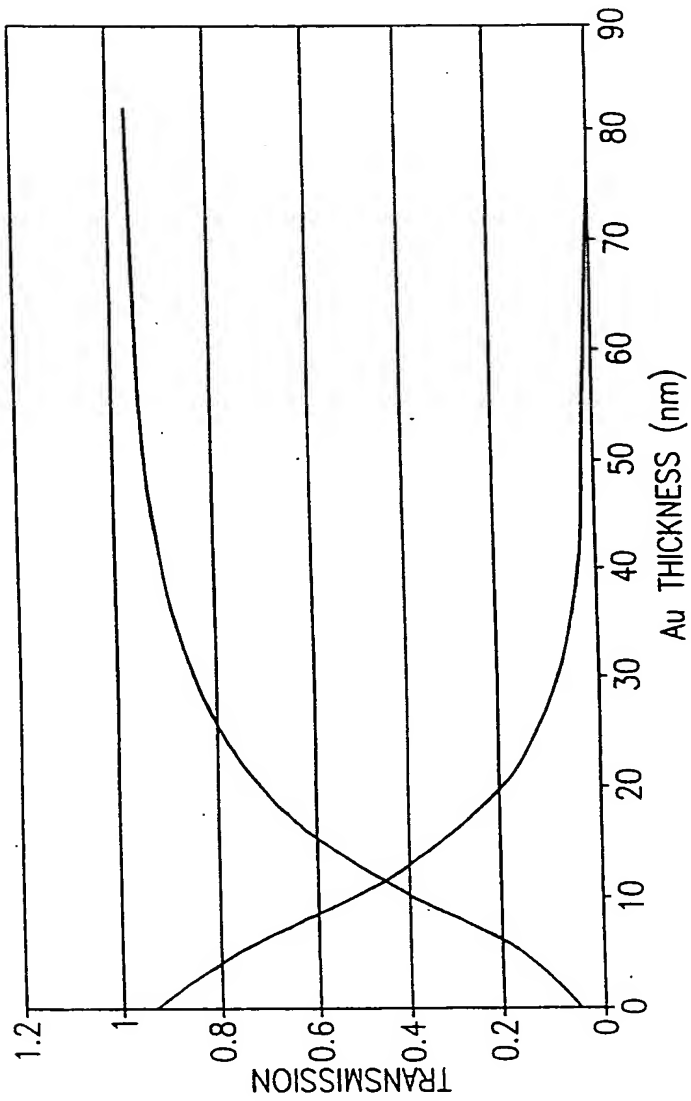


FIG. 7

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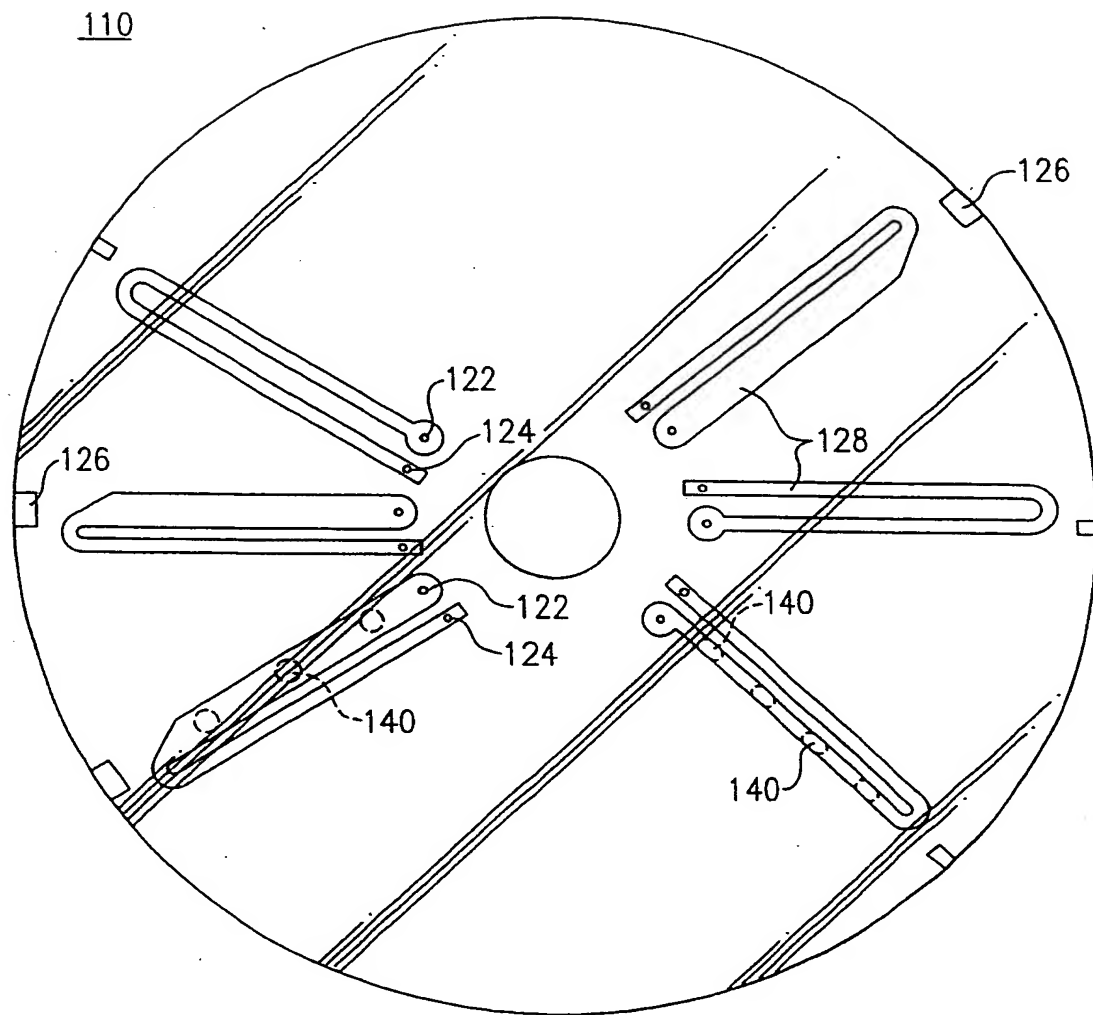


FIG.8

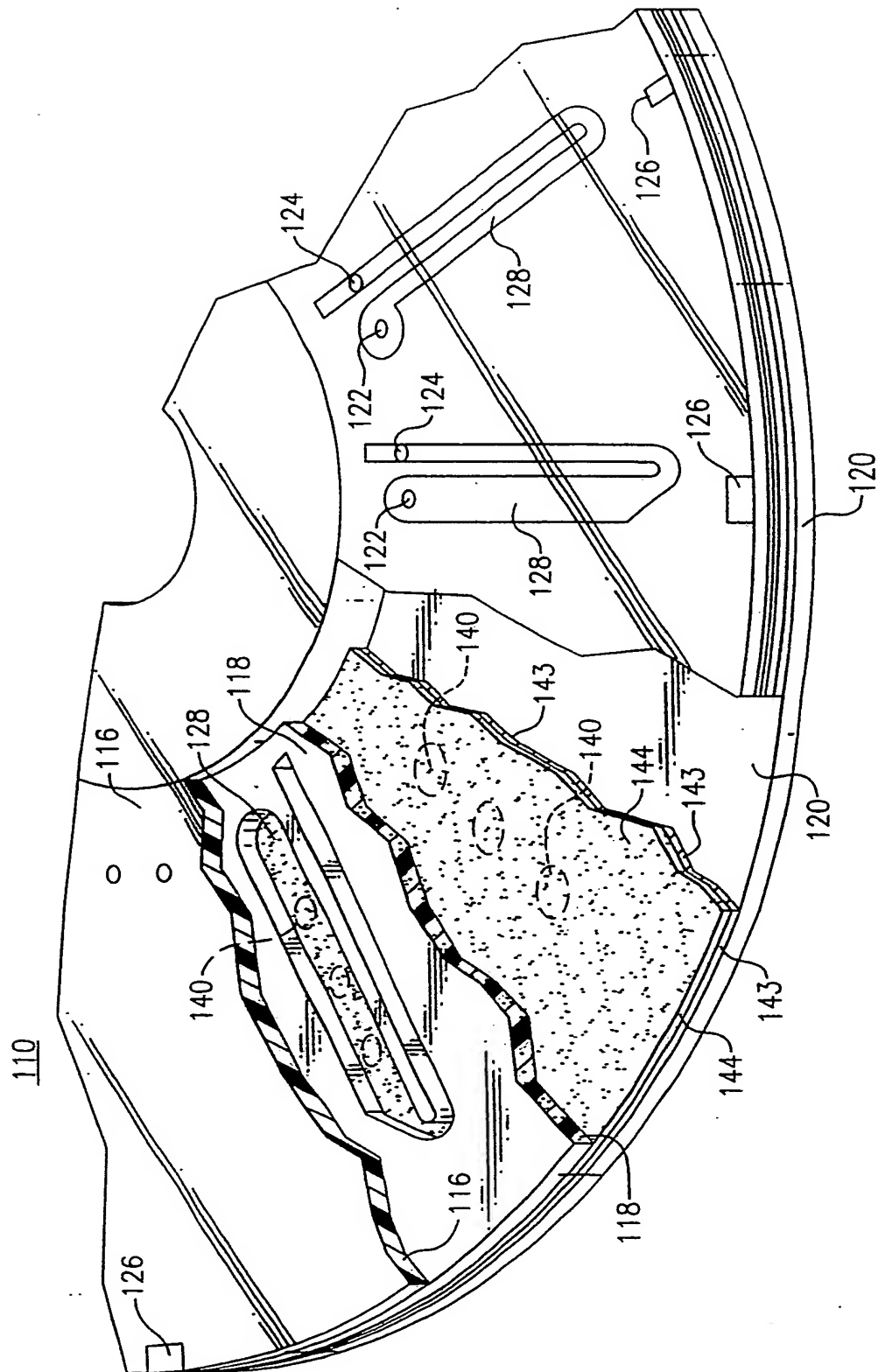


FIG. 9

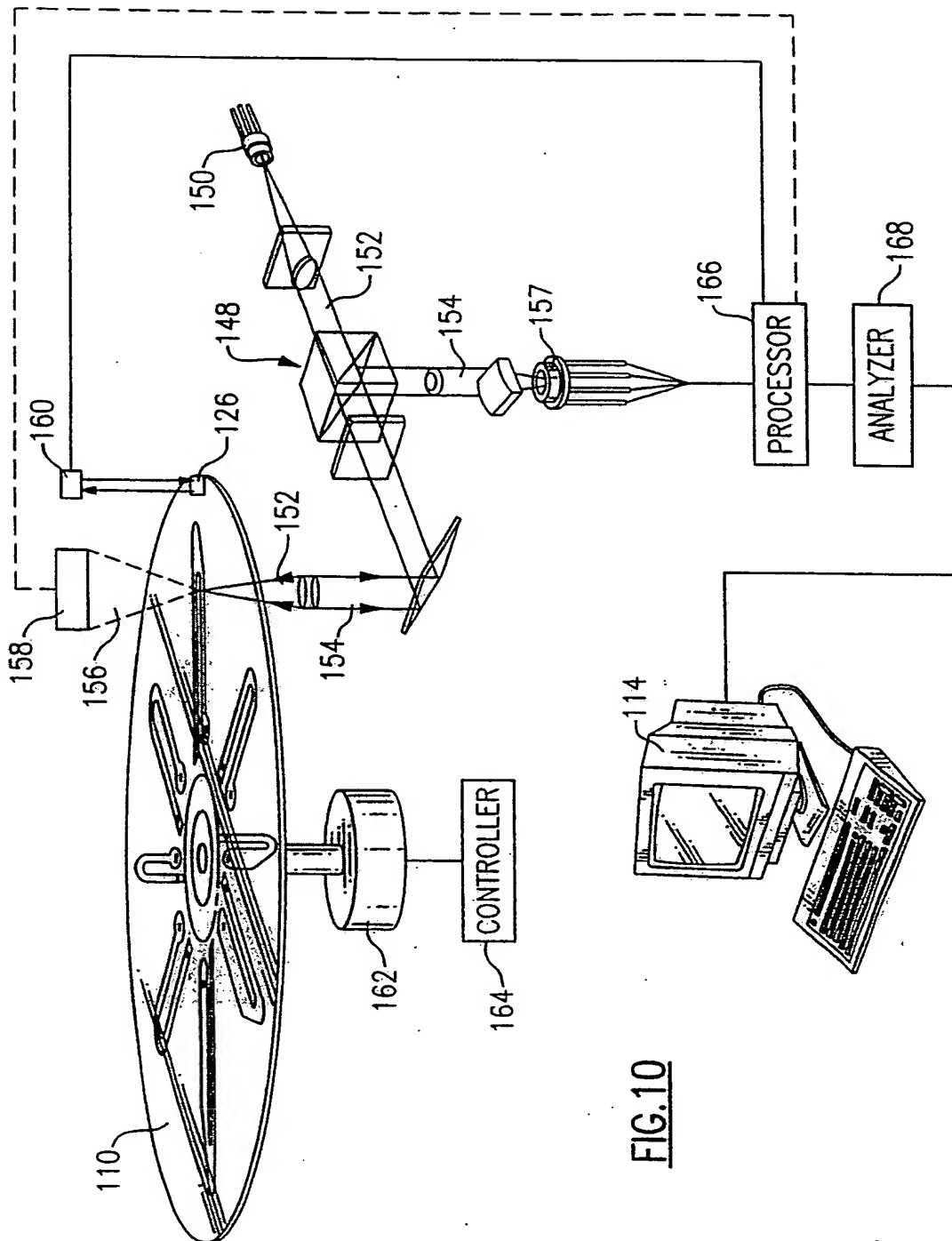


FIG. 10

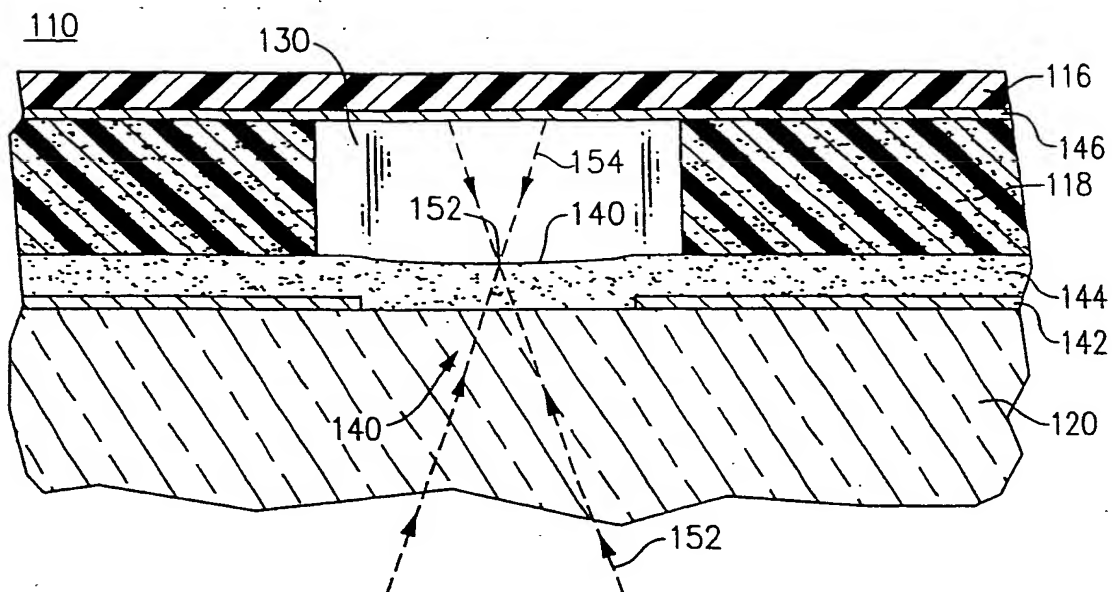


FIG.11

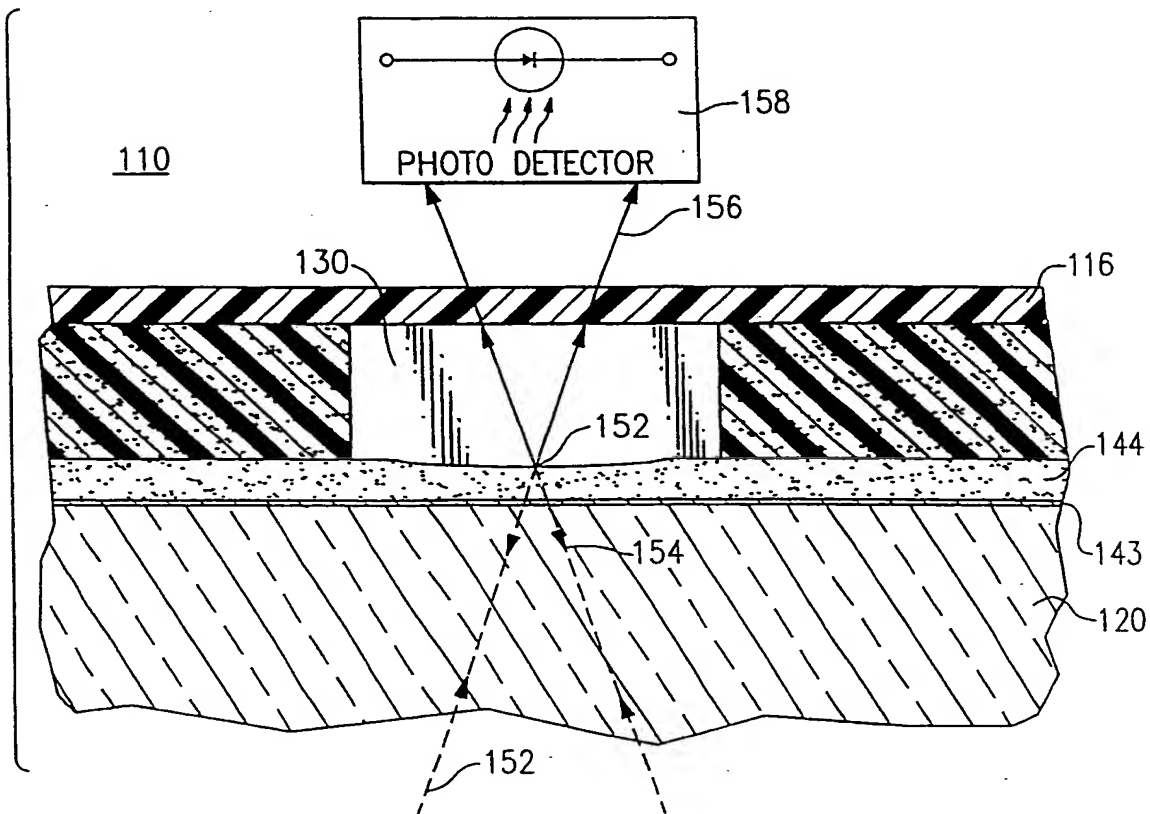
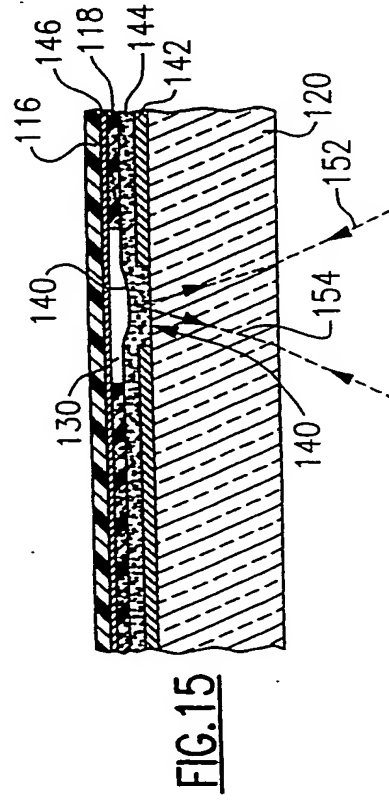
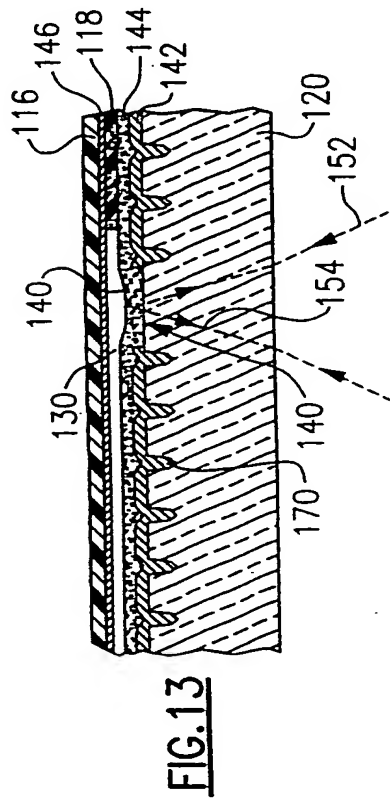
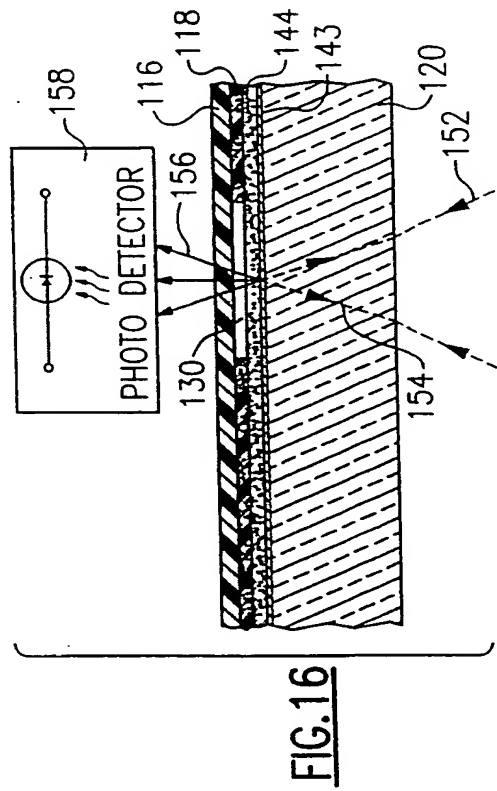
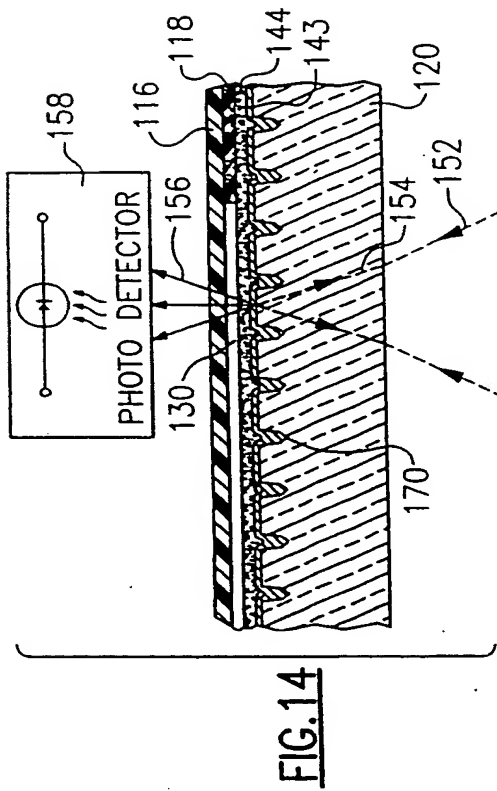


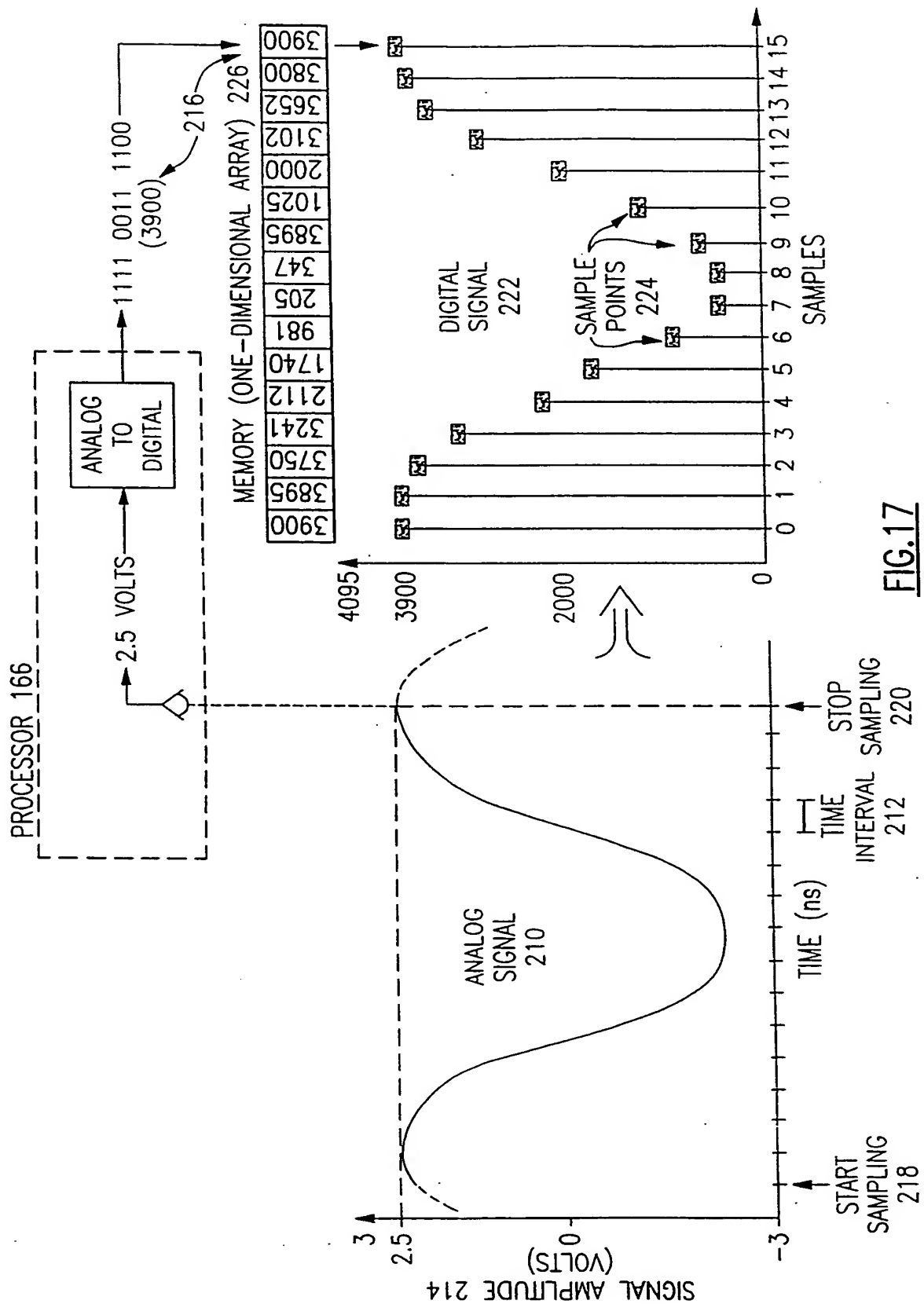
FIG.12

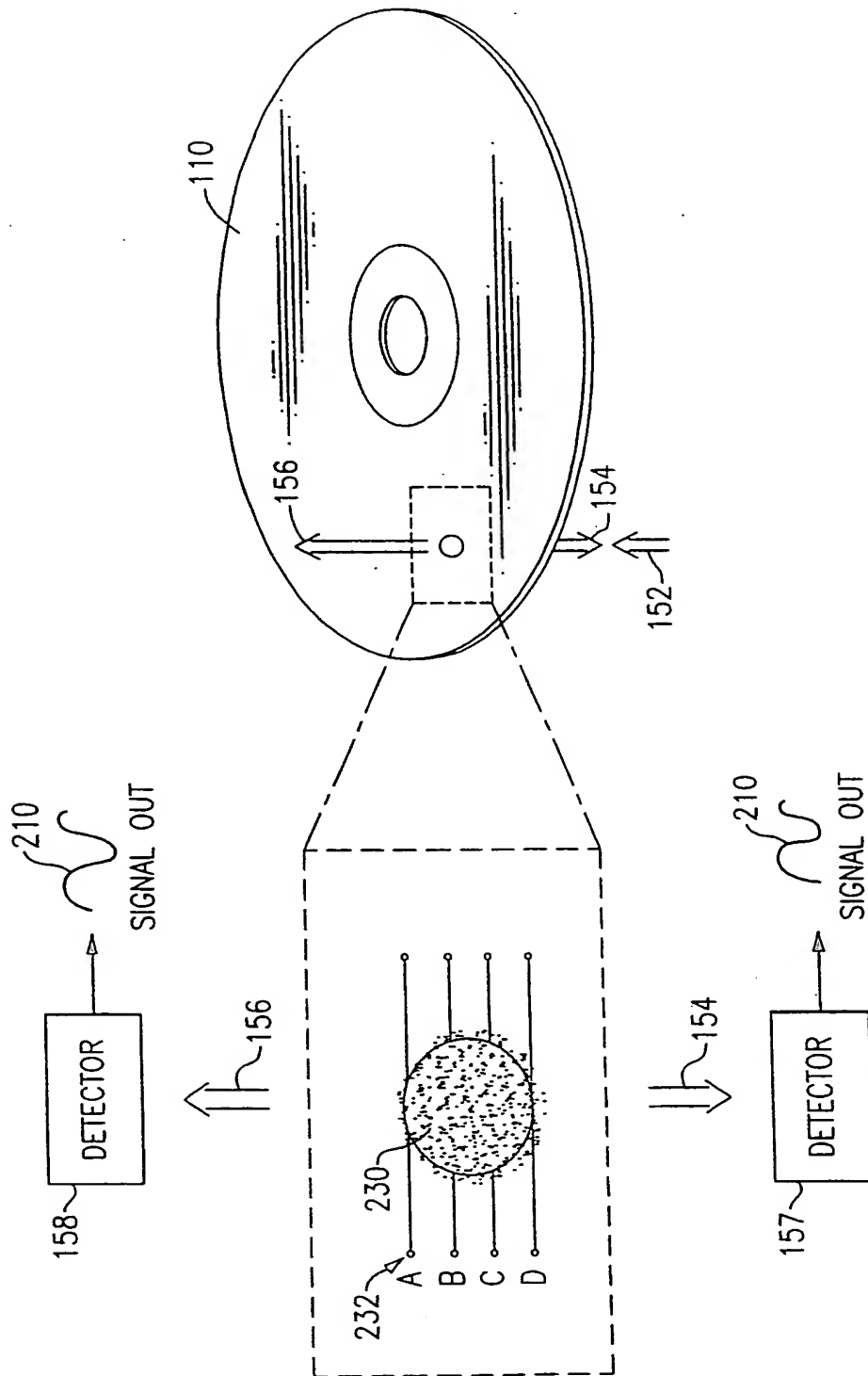
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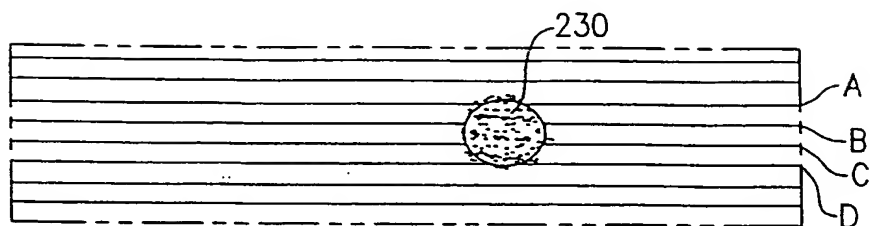


FIG.19A

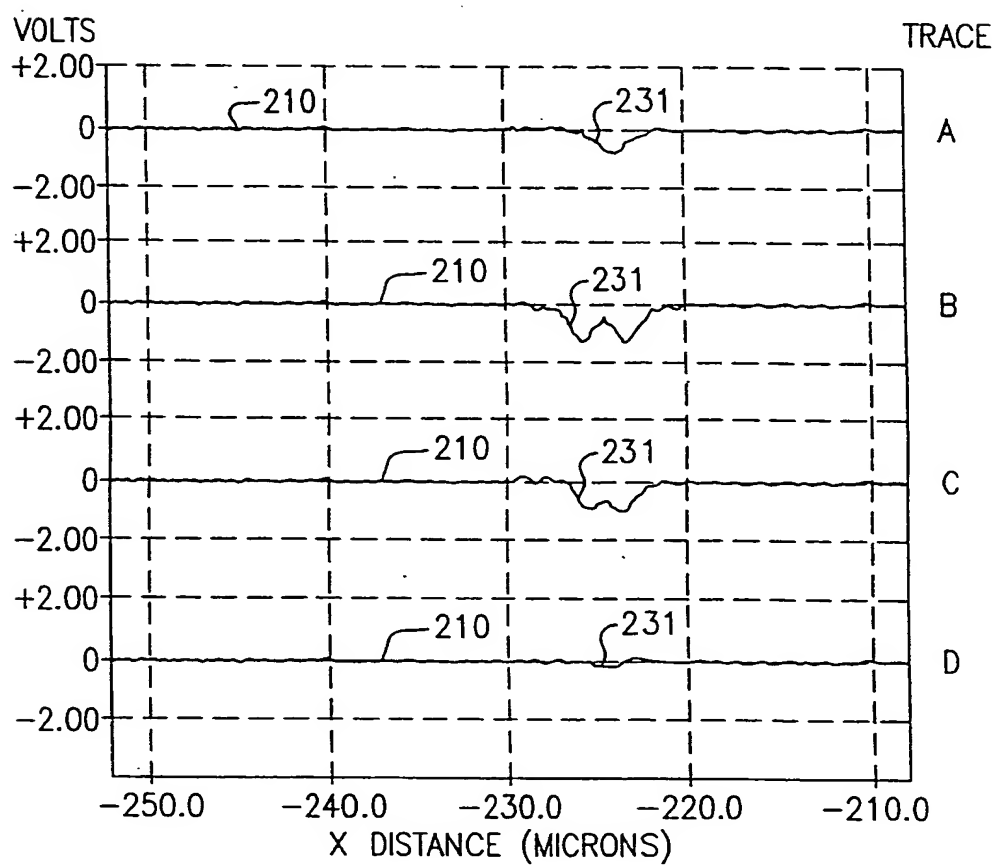


FIG.19B

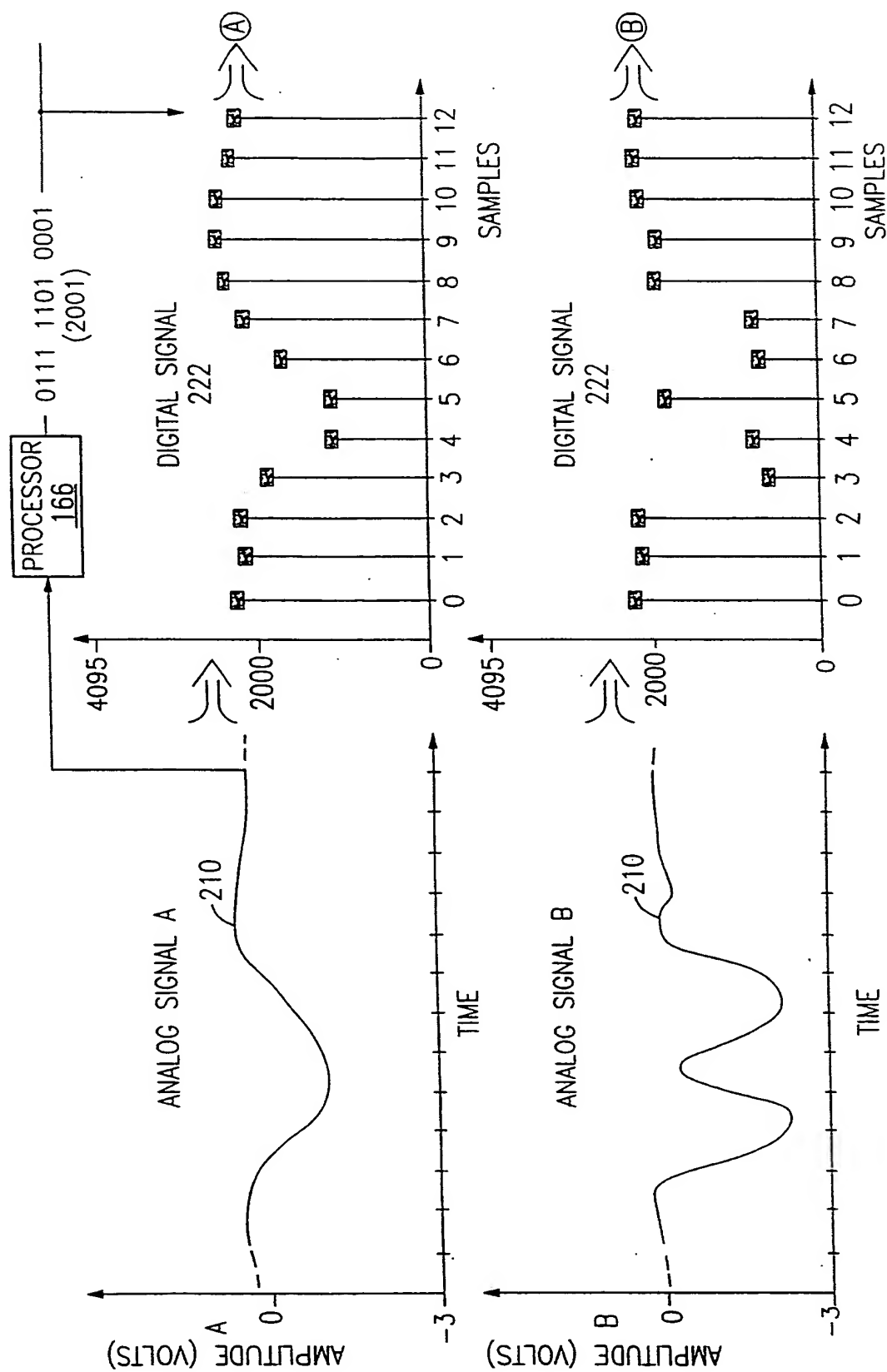


FIG. 20A

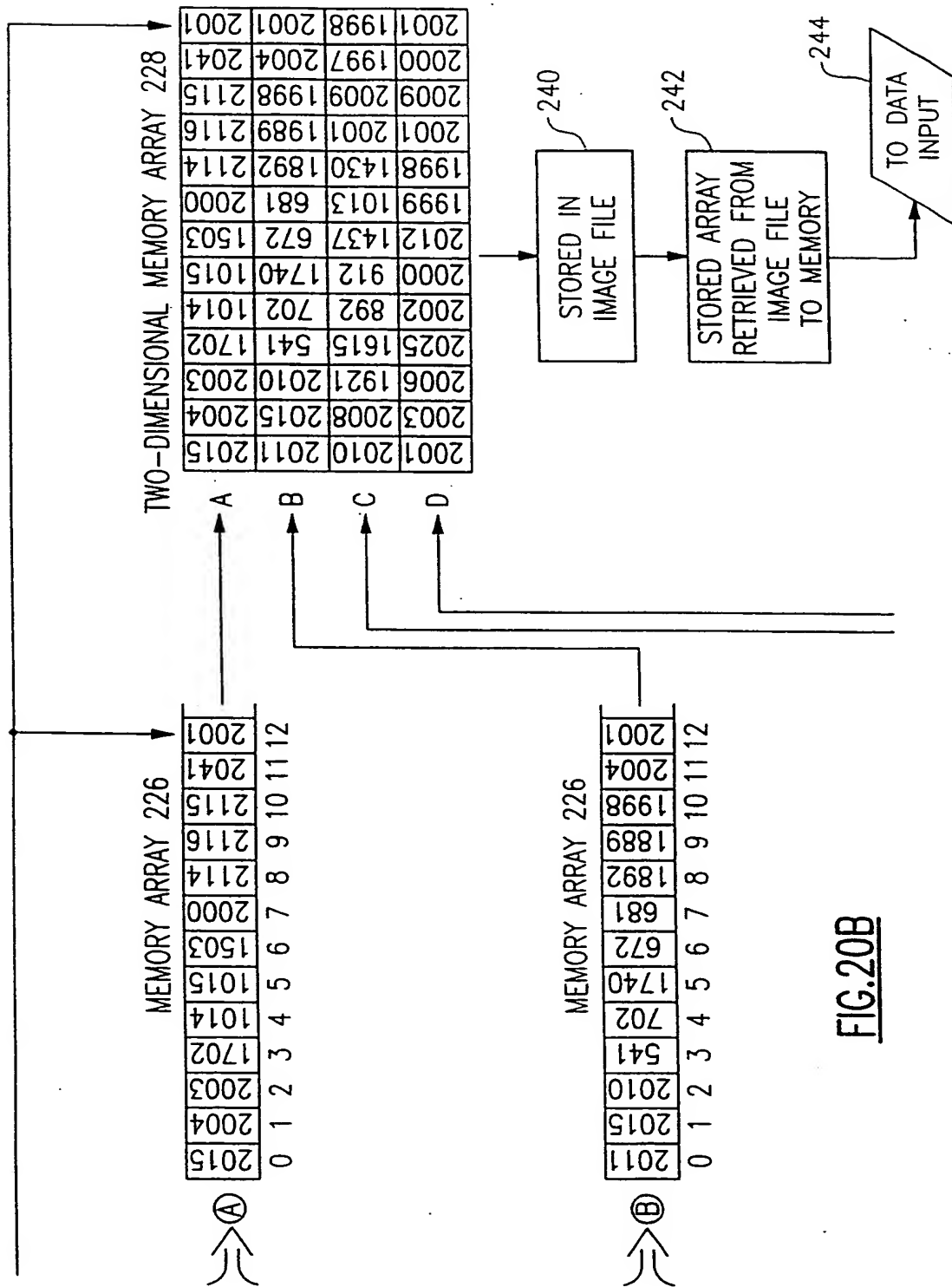


FIG.20B

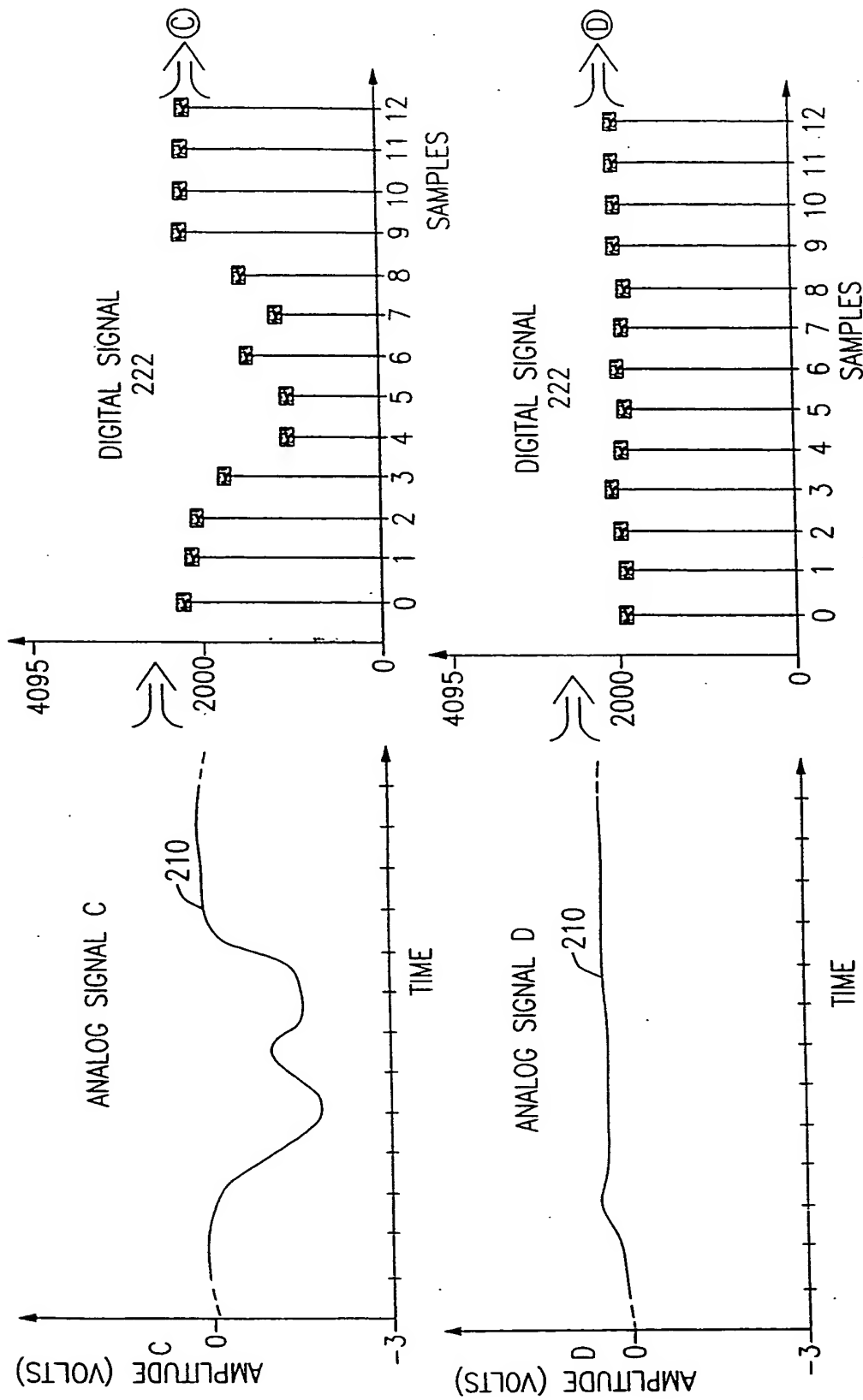


FIG. 20C

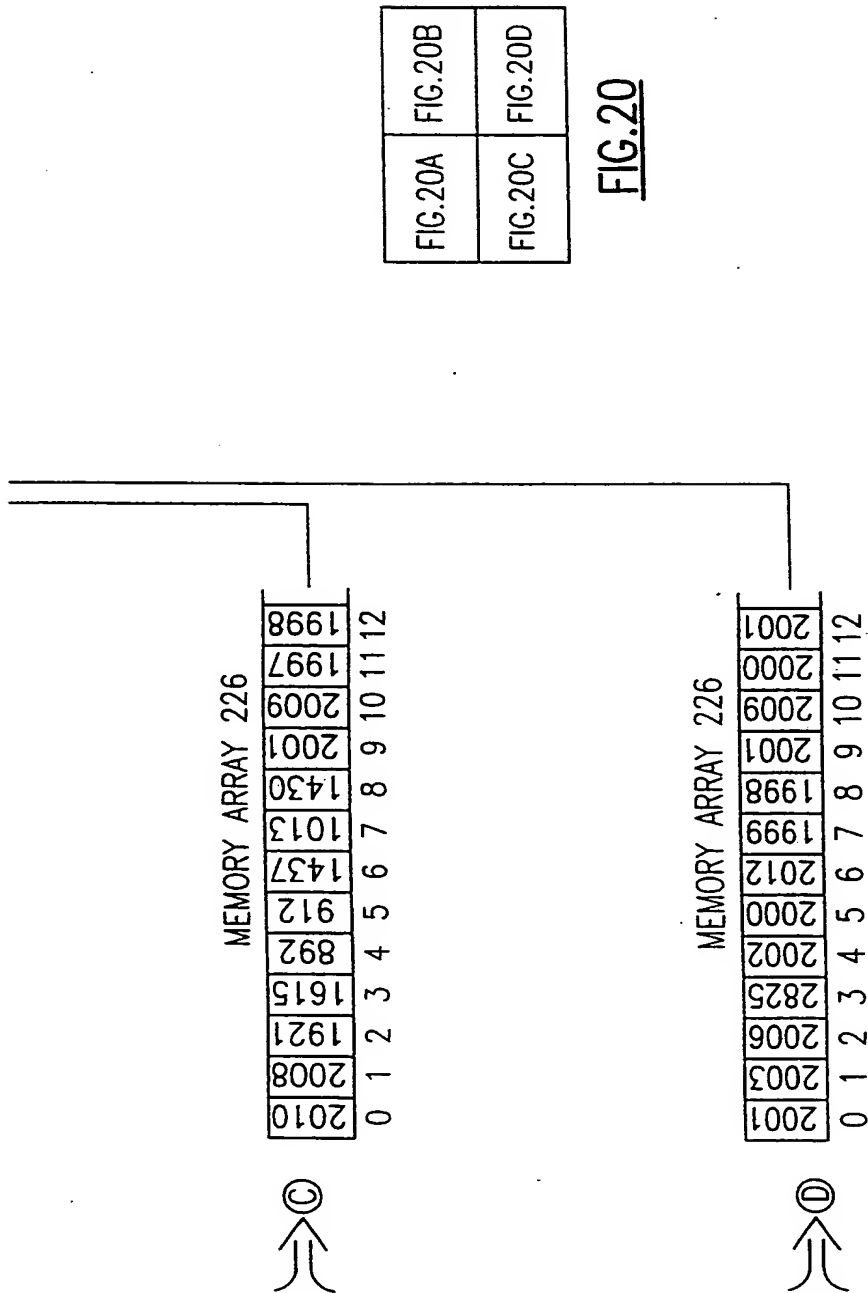
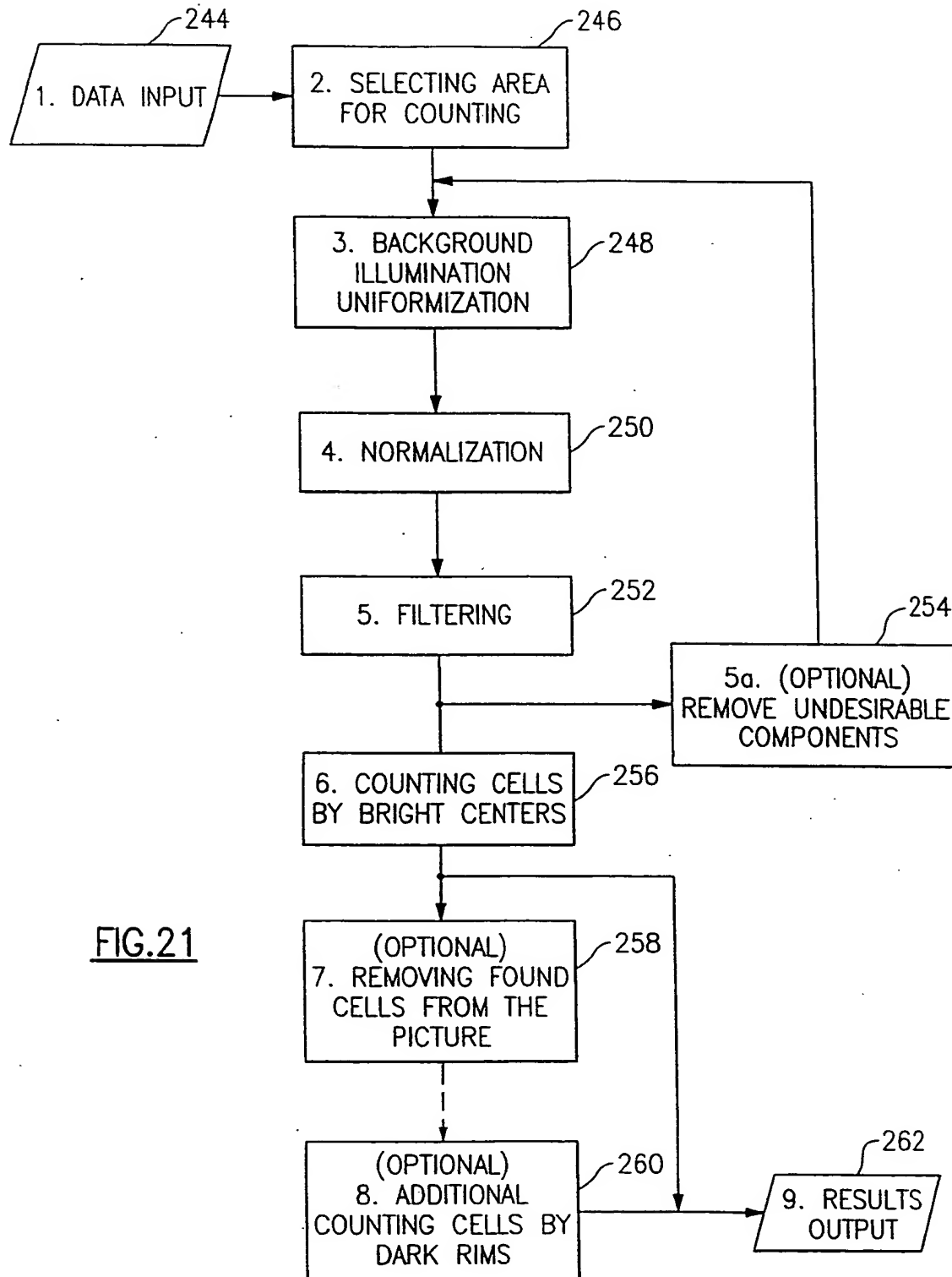
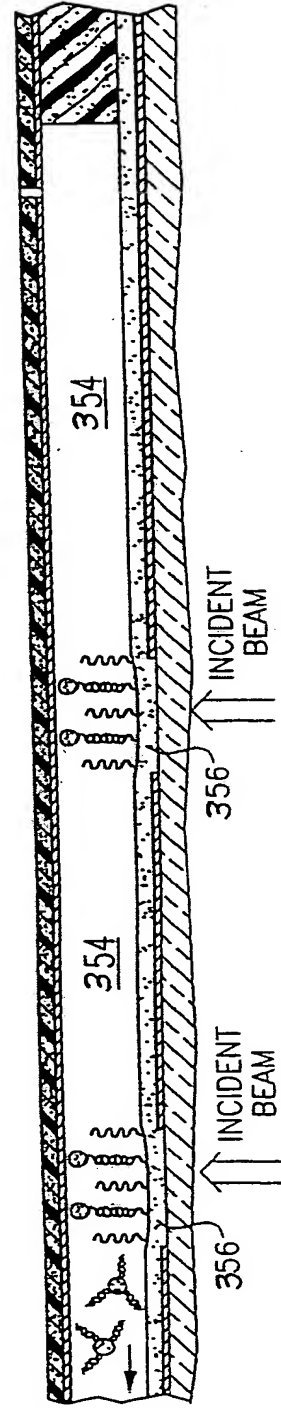
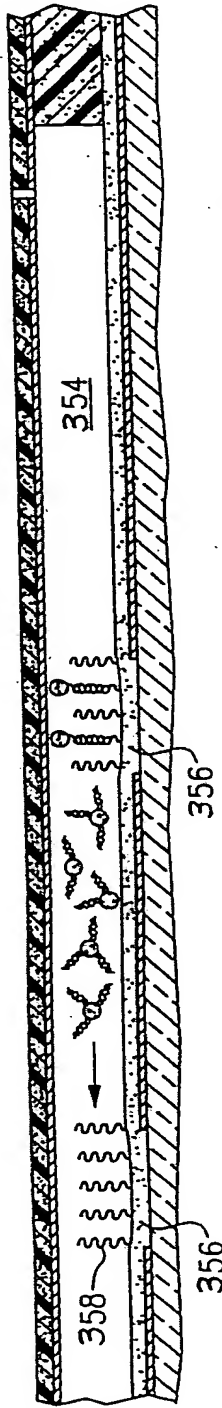
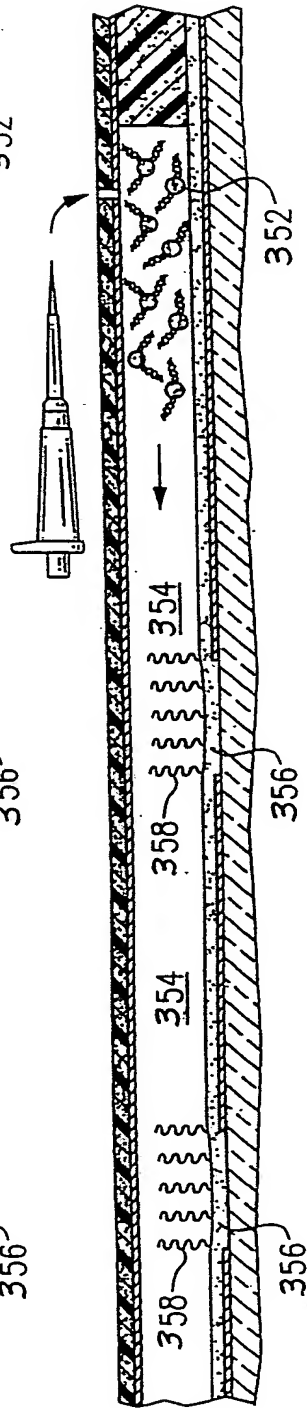
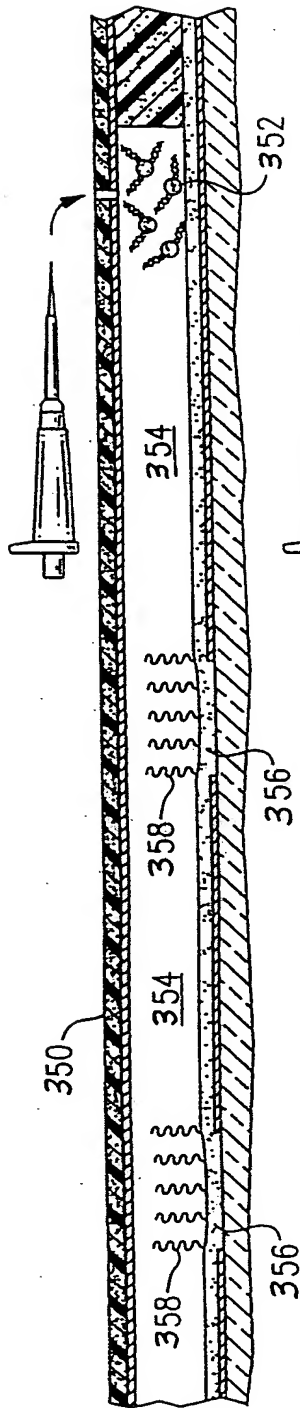


FIG. 20D

FIG. 20A	FIG. 20B
FIG. 20C	FIG. 20D

FIG. 20





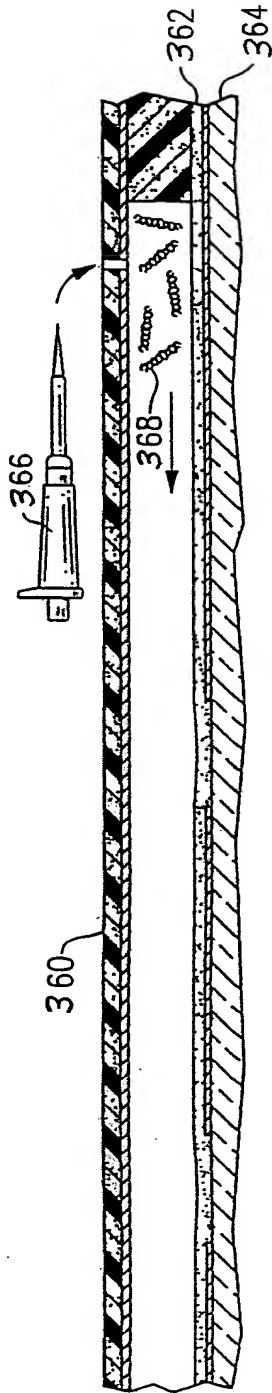


FIG. 23A

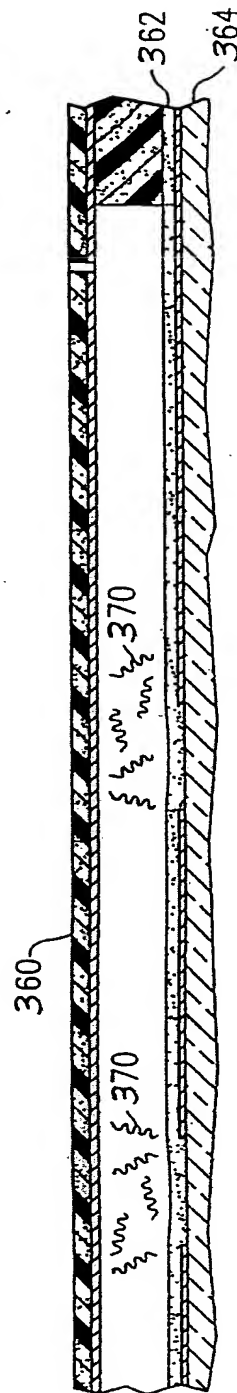


FIG. 23B

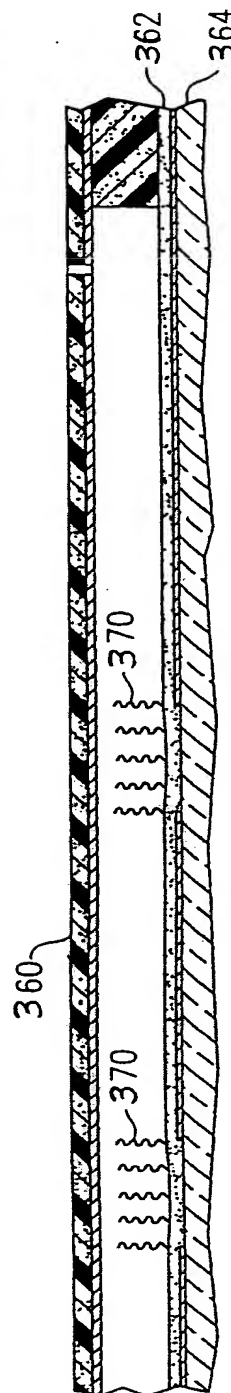


FIG. 23C

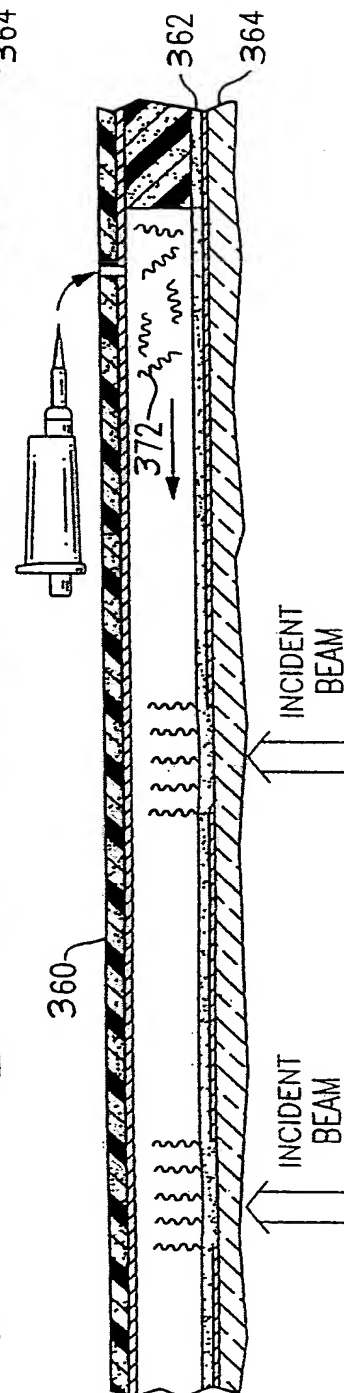


FIG. 23D

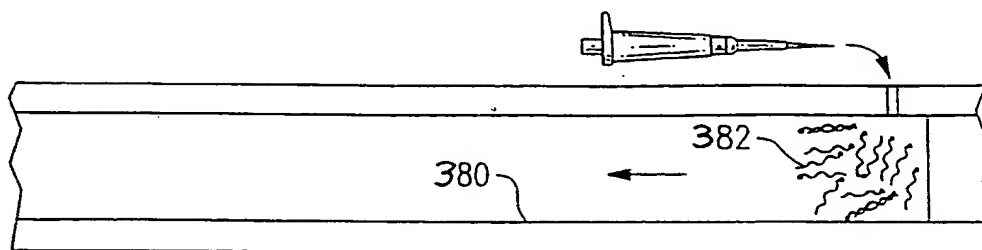


FIG. 24A

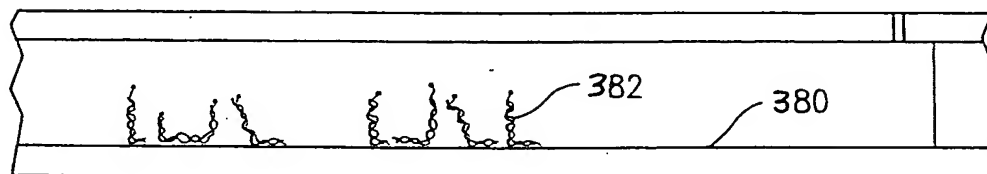


FIG. 24B

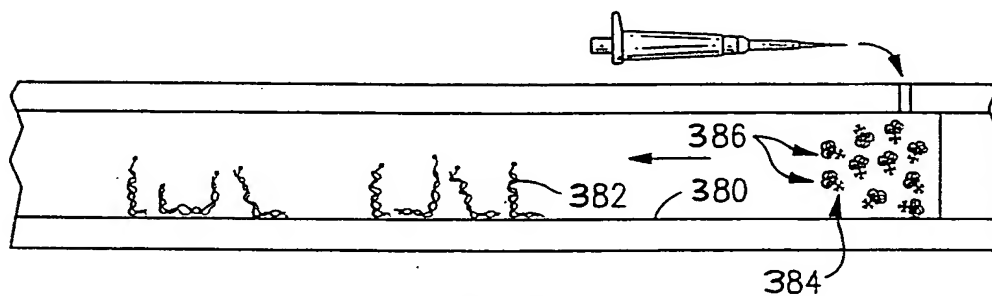


FIG. 24C

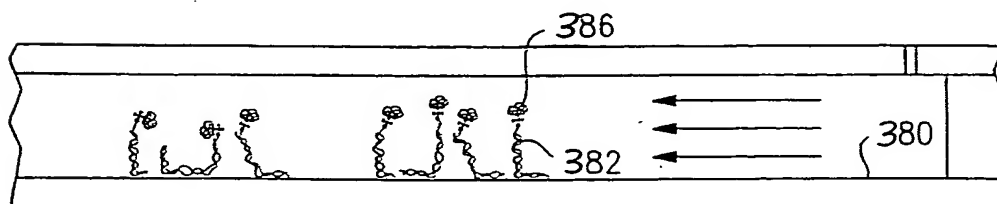


FIG. 24D

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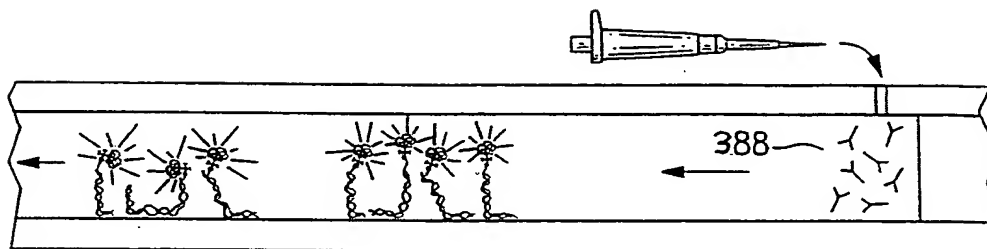


FIG. 24E

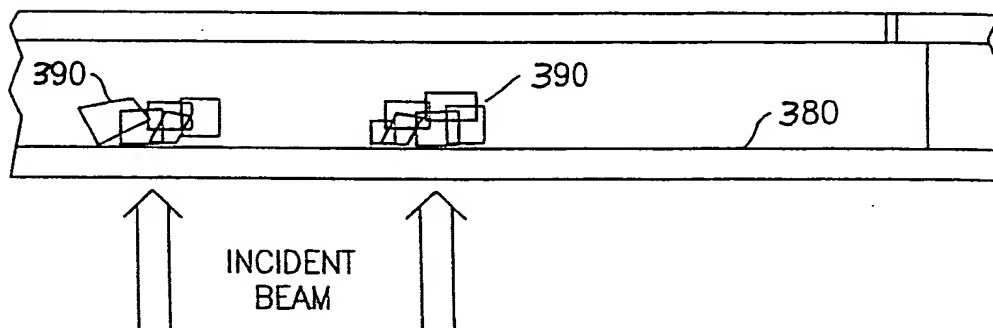


FIG. 24F

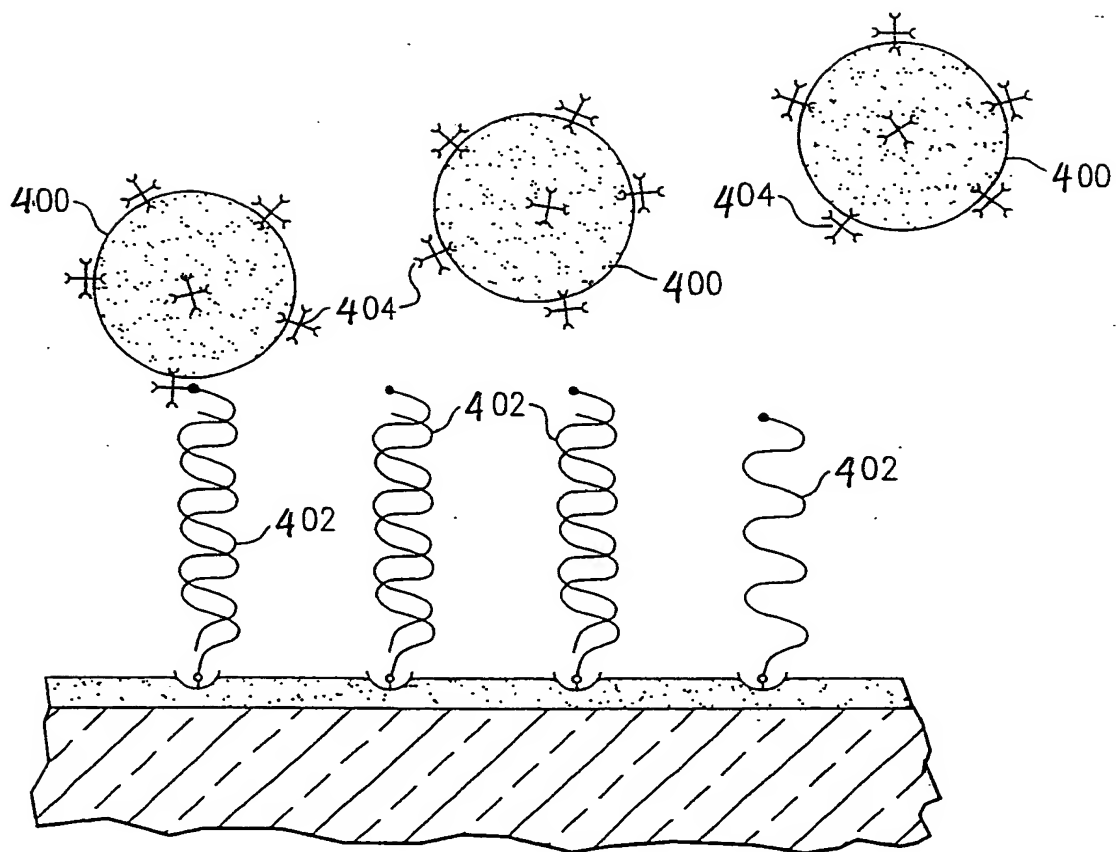


FIG. 25

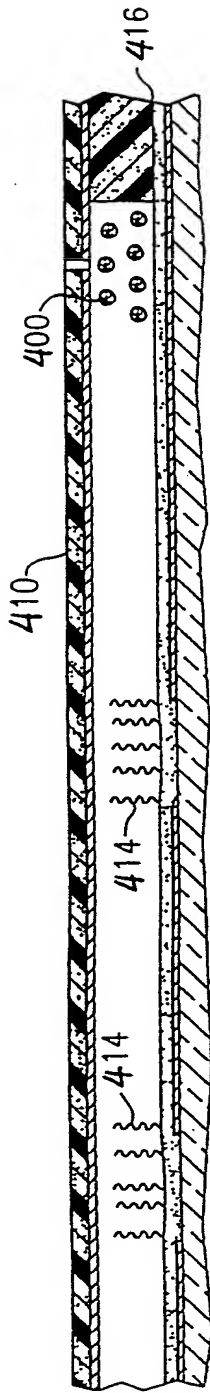


FIG. 26A

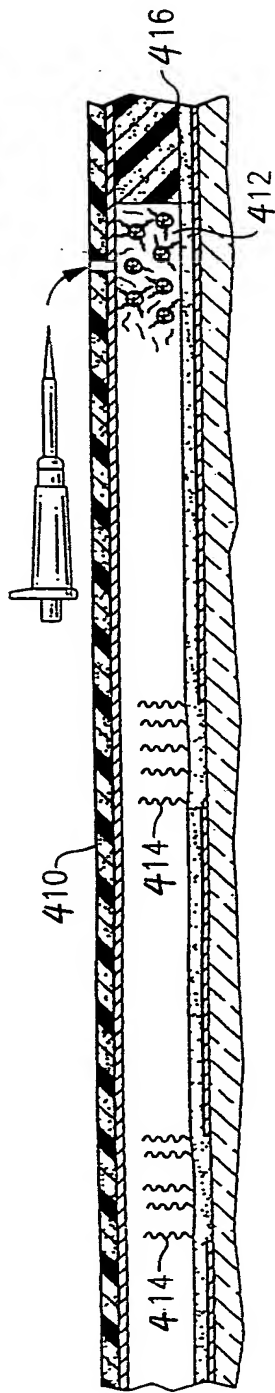


FIG. 26B

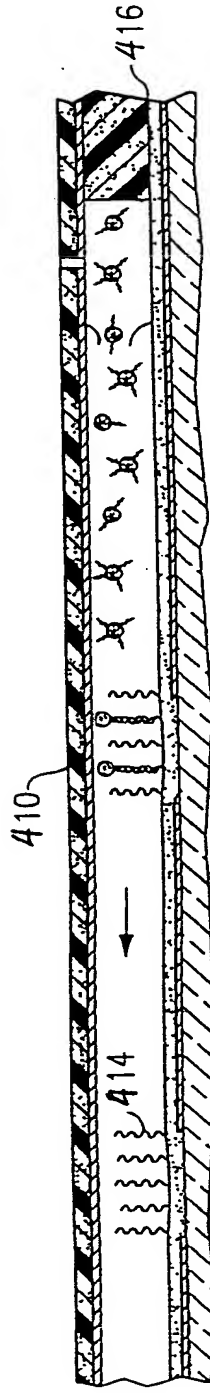


FIG. 26C

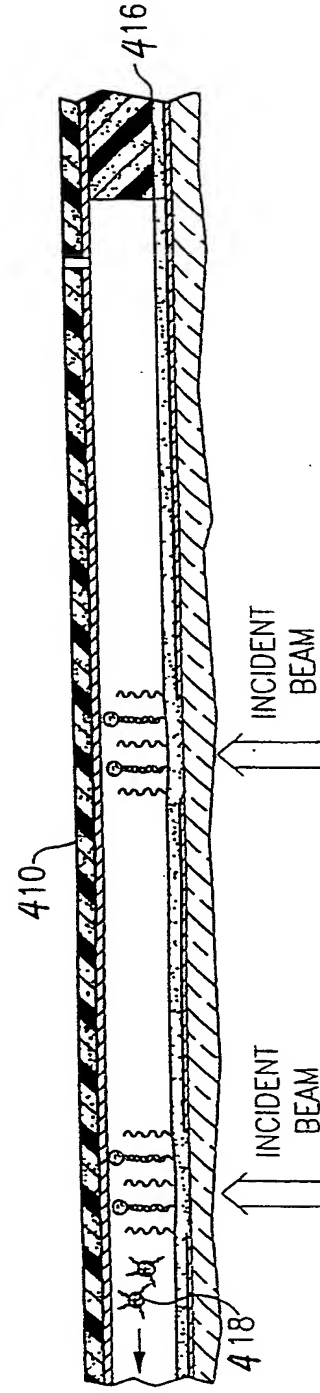


FIG. 26D

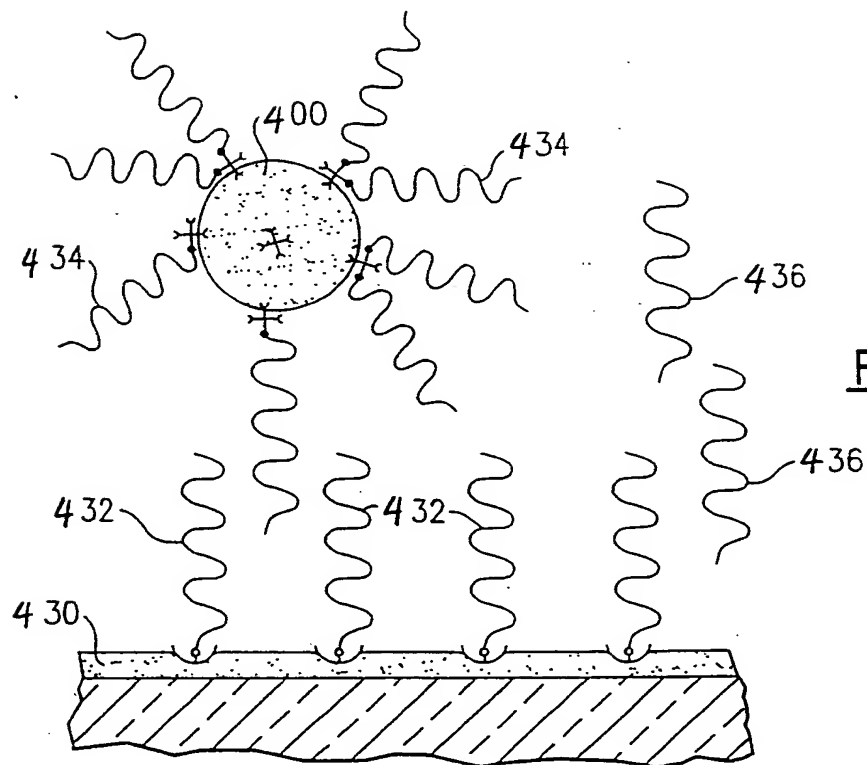
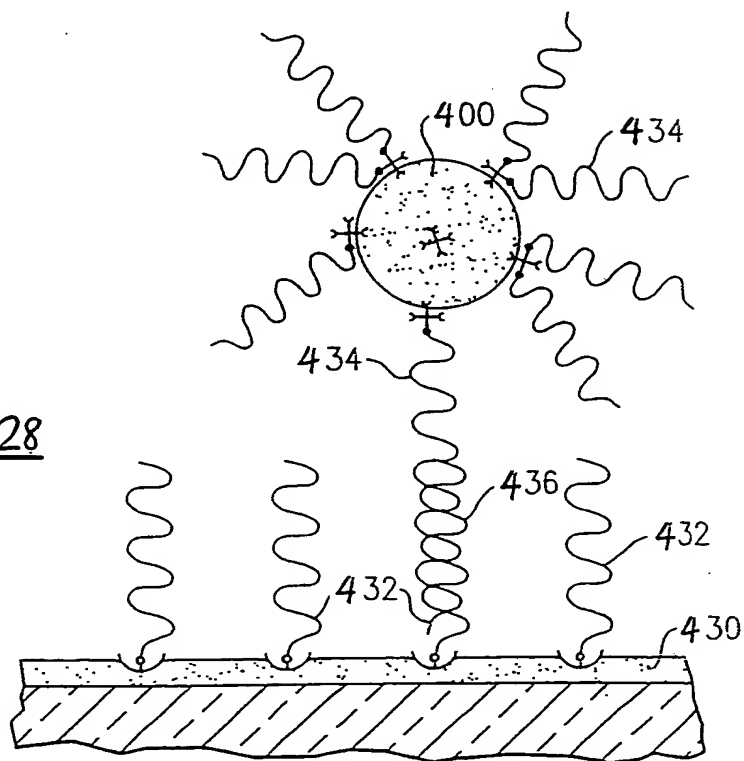


FIG. 28



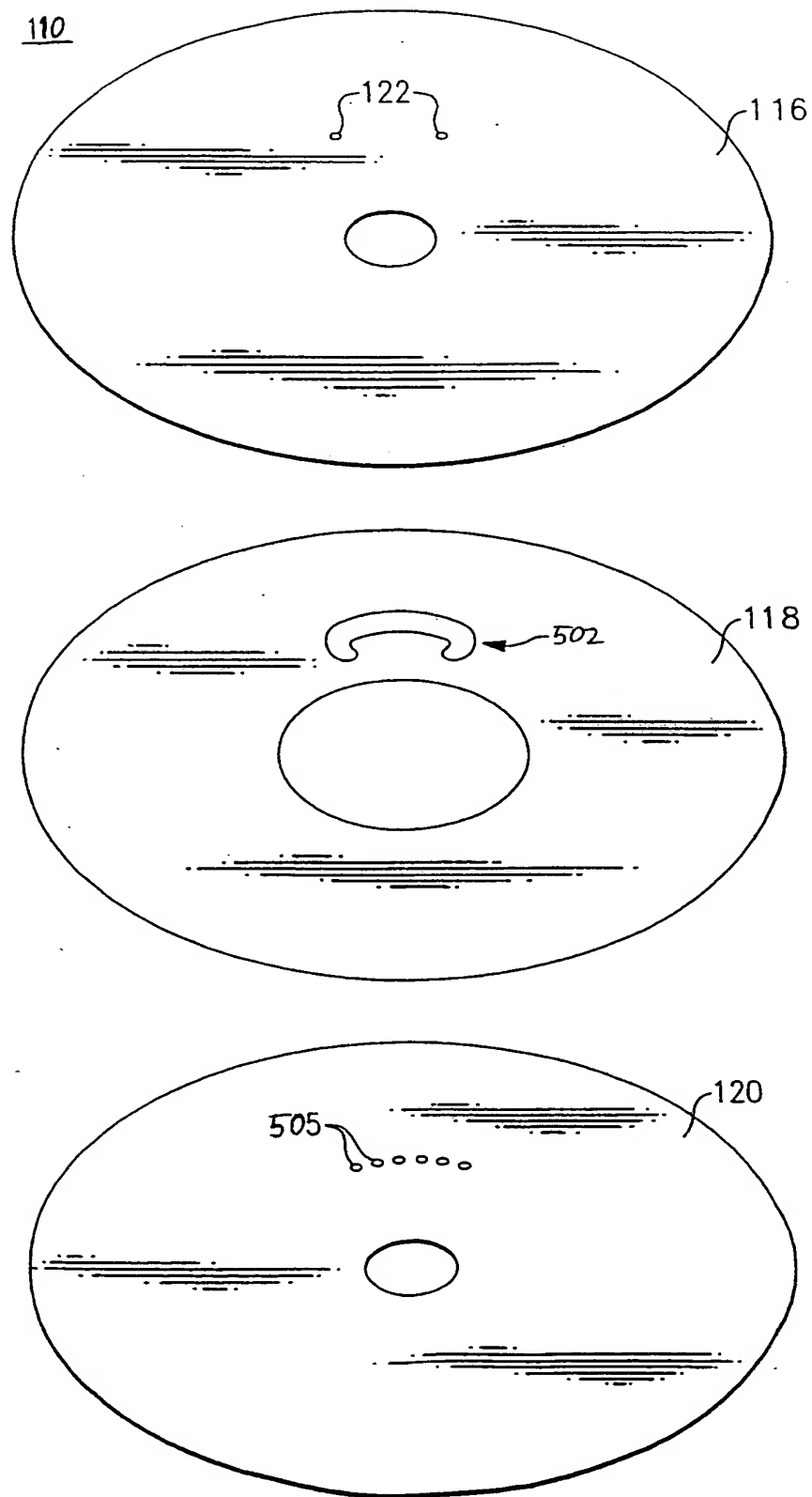


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FIG. 30



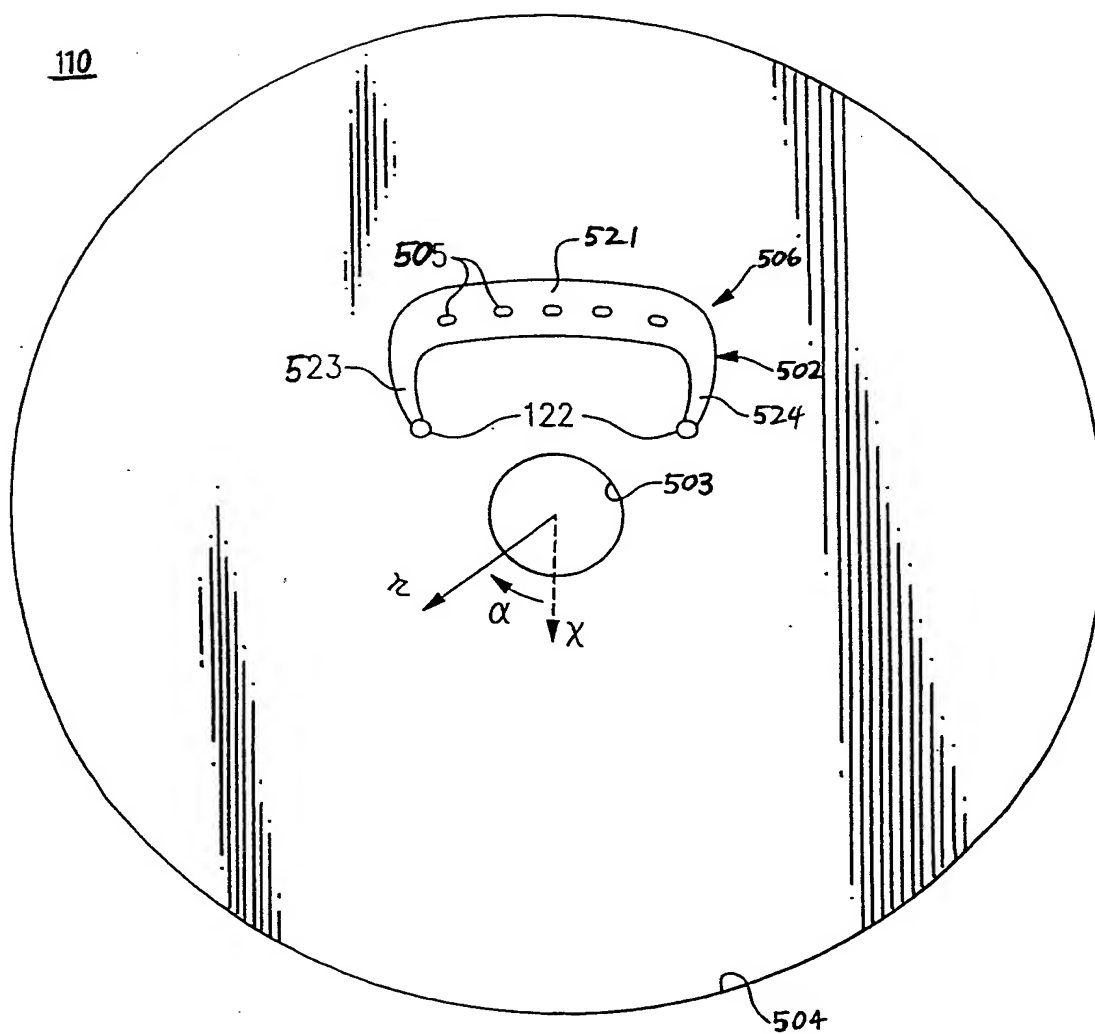
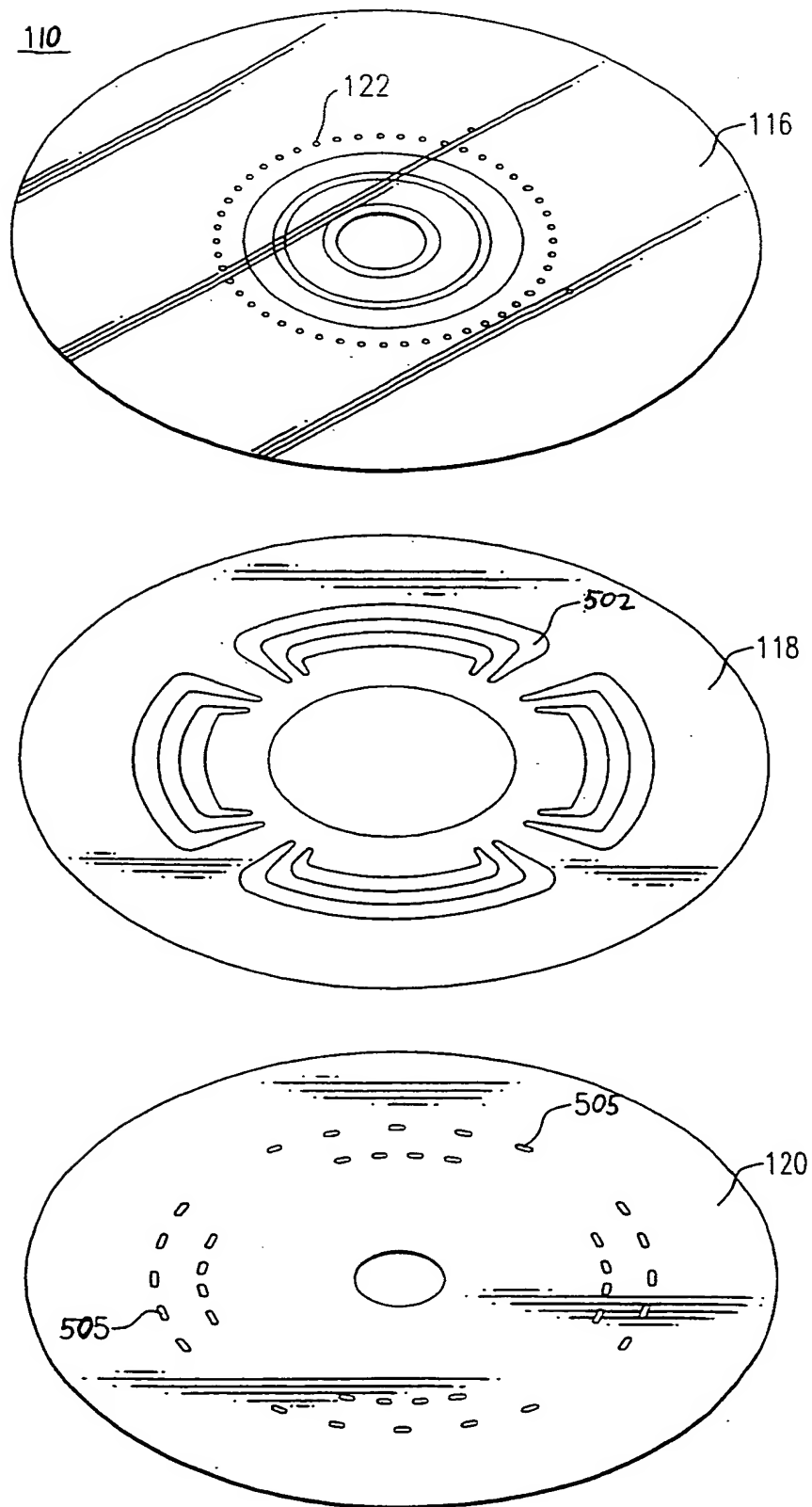


FIG. 31

FIG. 32A



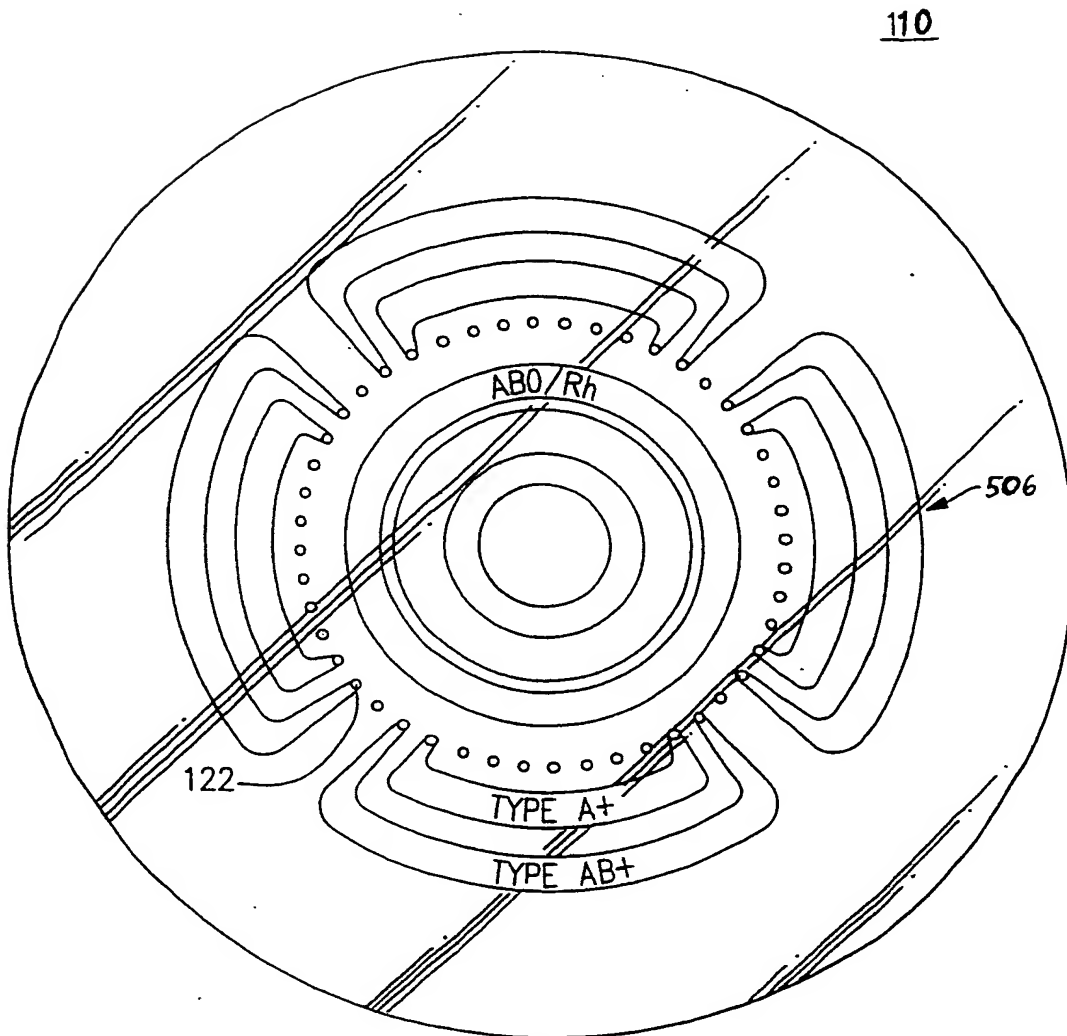


FIG.32B

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FIG. 32C

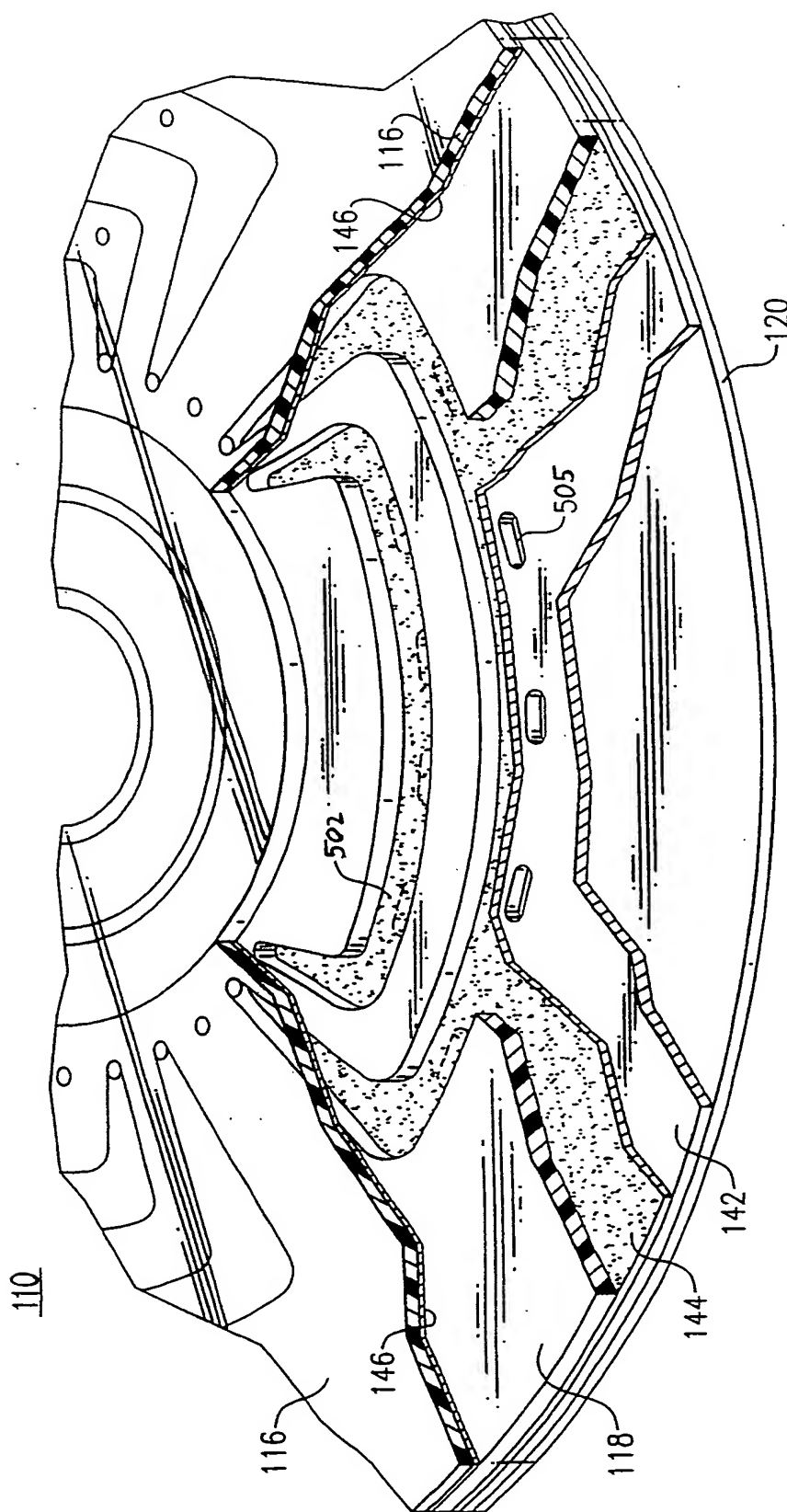
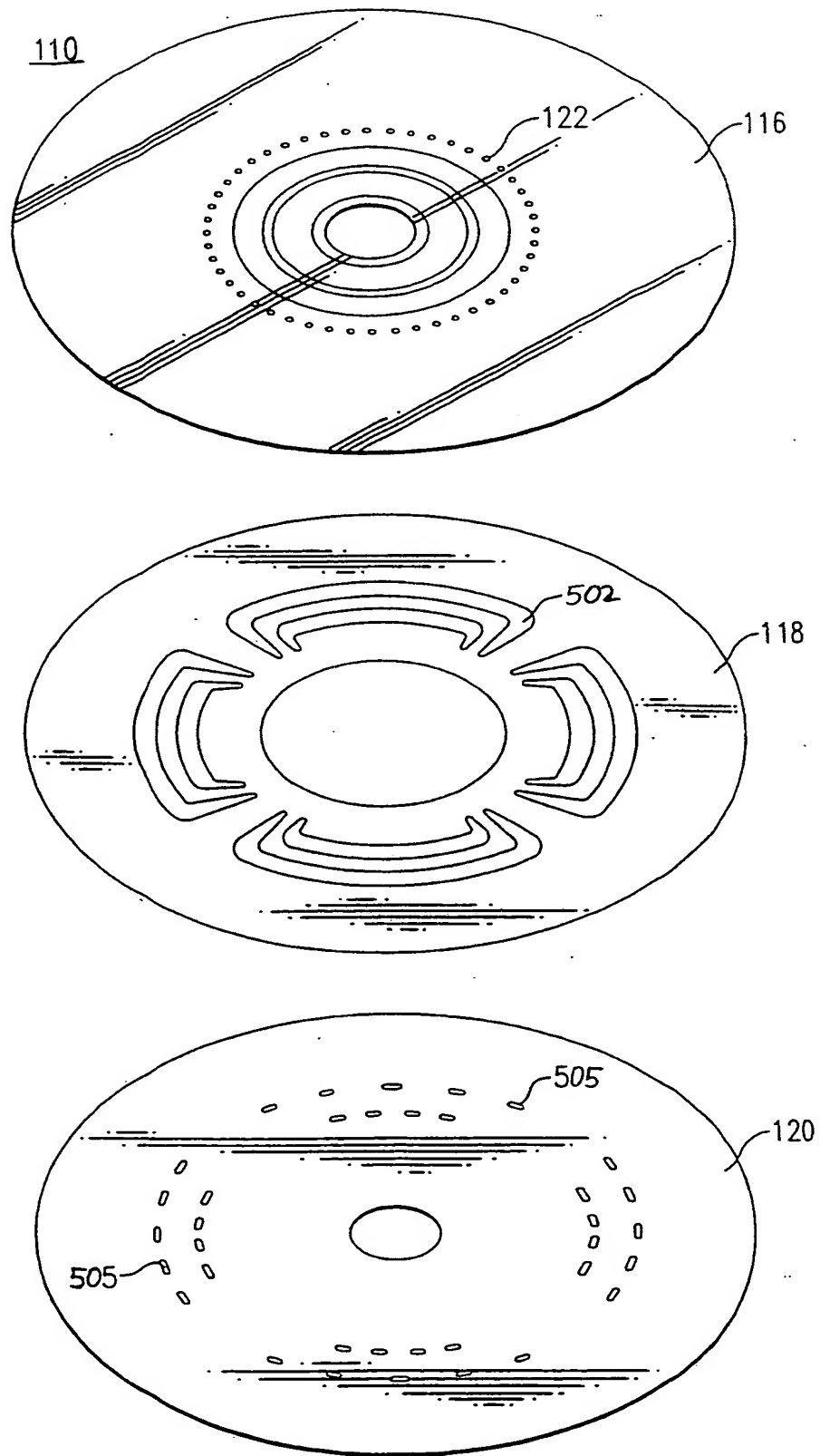


FIG. 33A



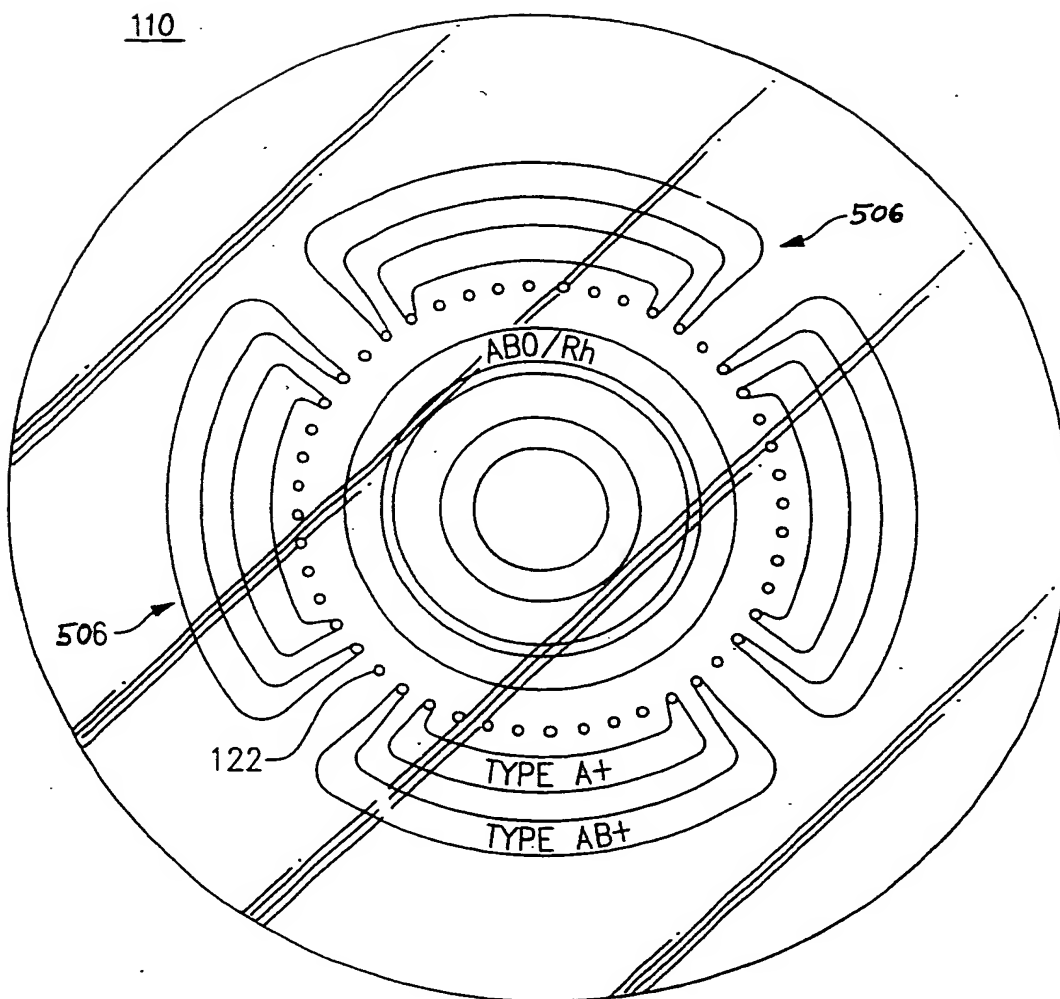


FIG.33B

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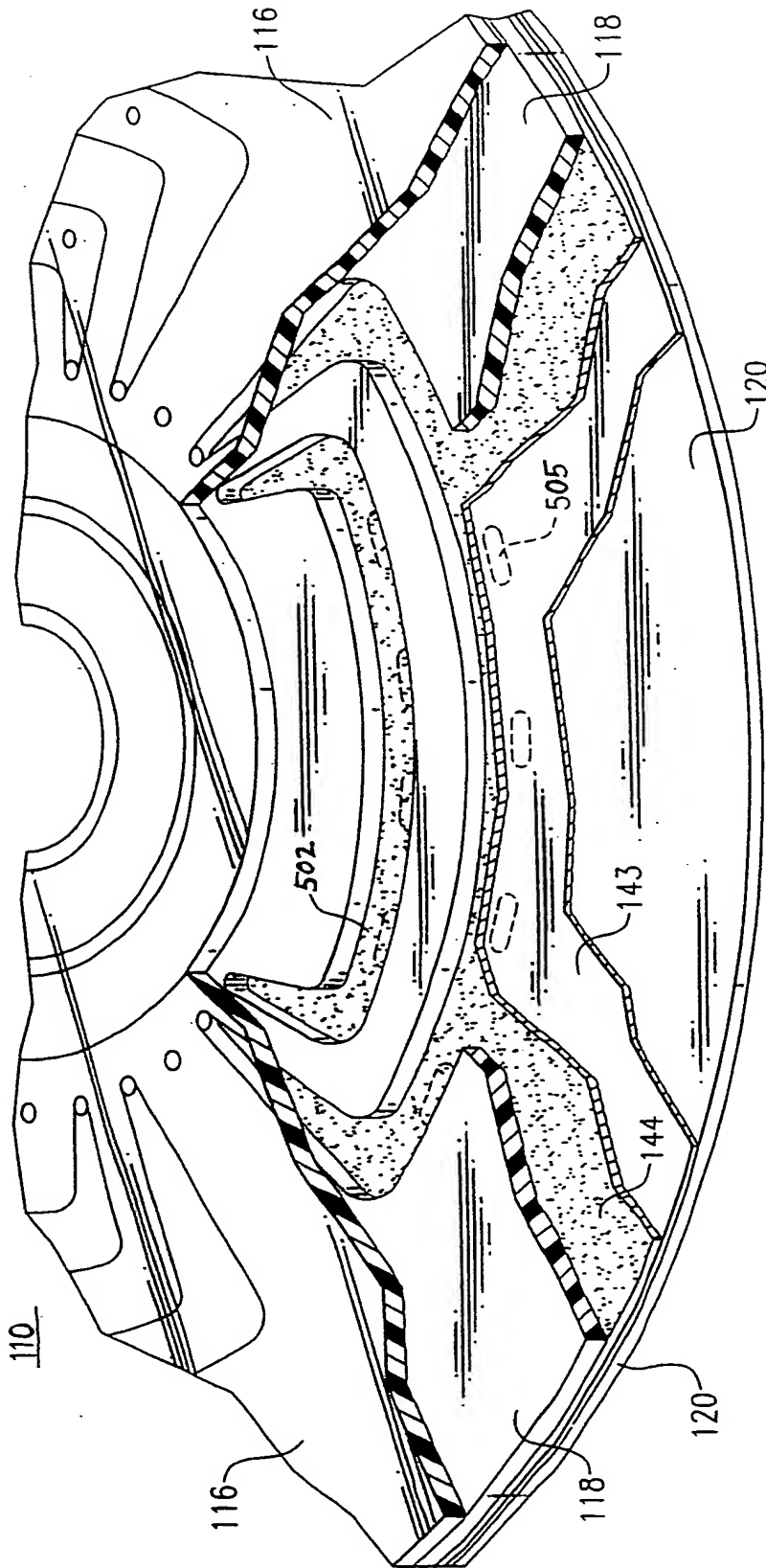


FIG. 33C

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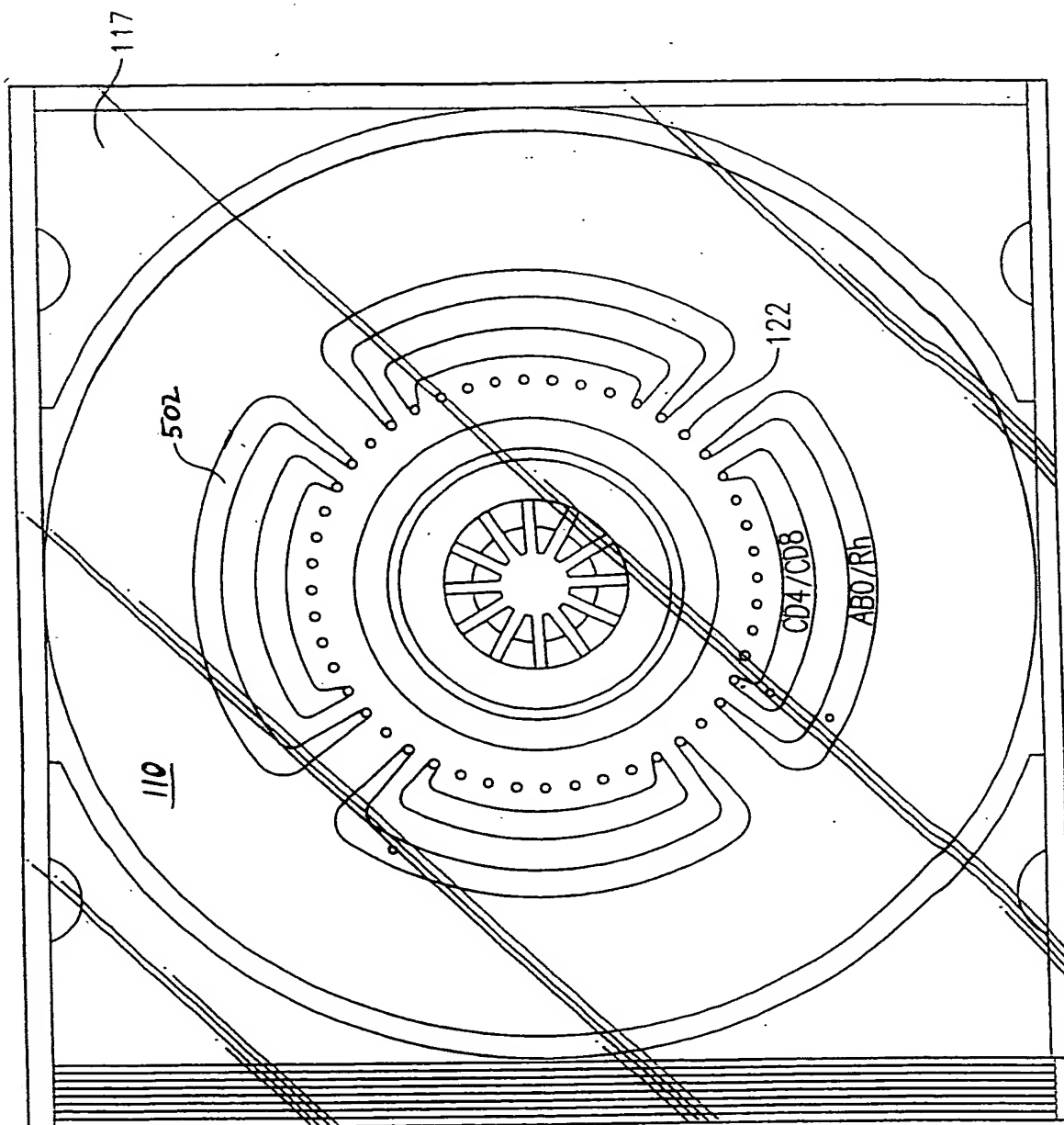


FIG. 34

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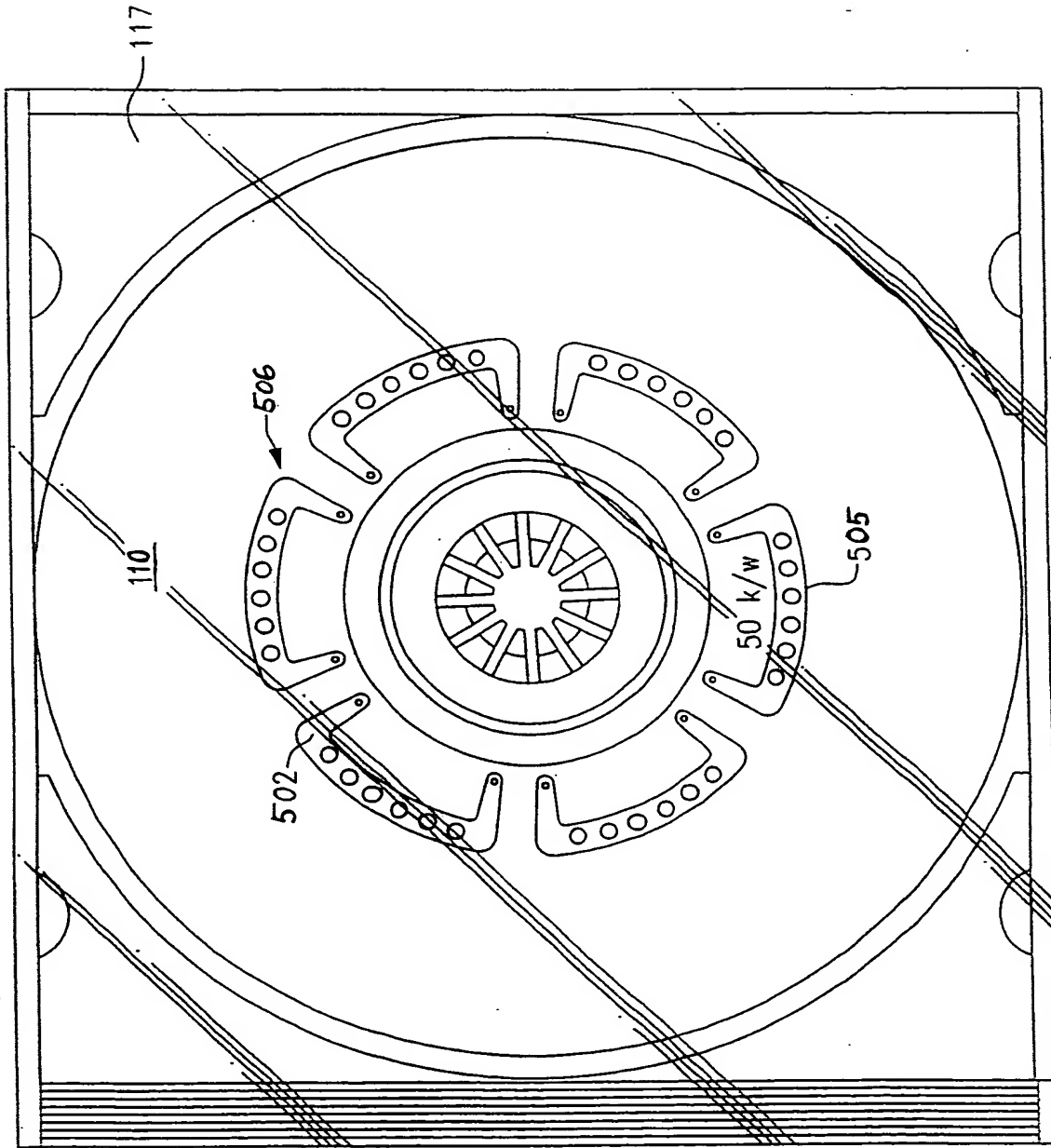
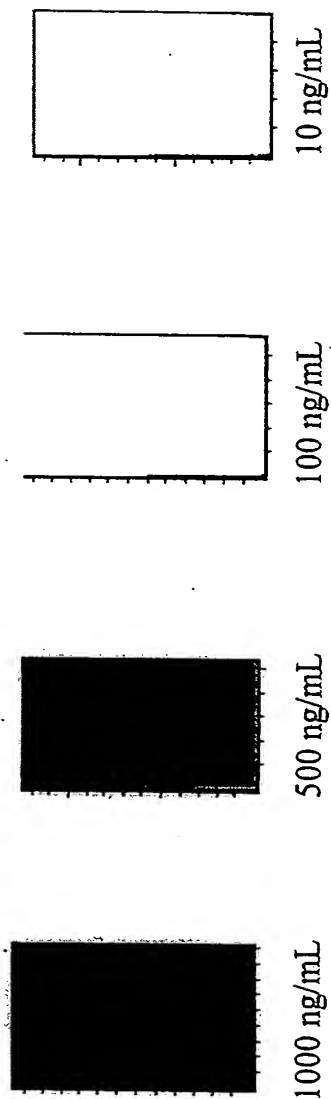


FIG. 35

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BTI

CD-Derived Hemoglobin Dose-Response Images

Hemoglobin Ao



Hemoglobin A1c

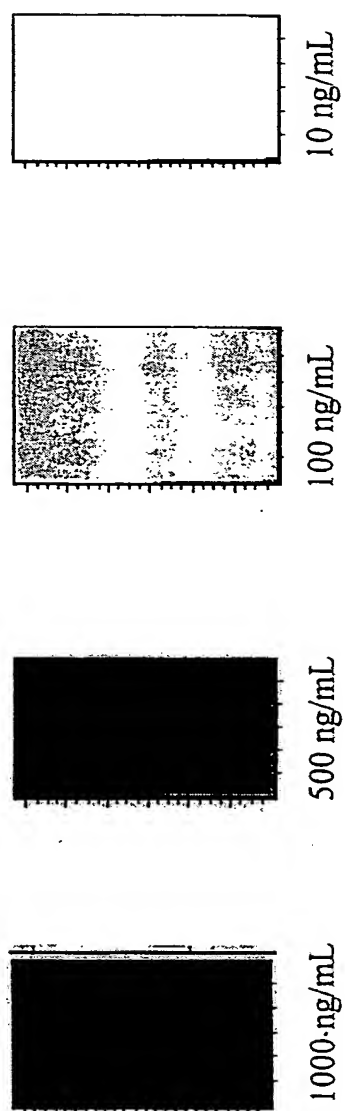
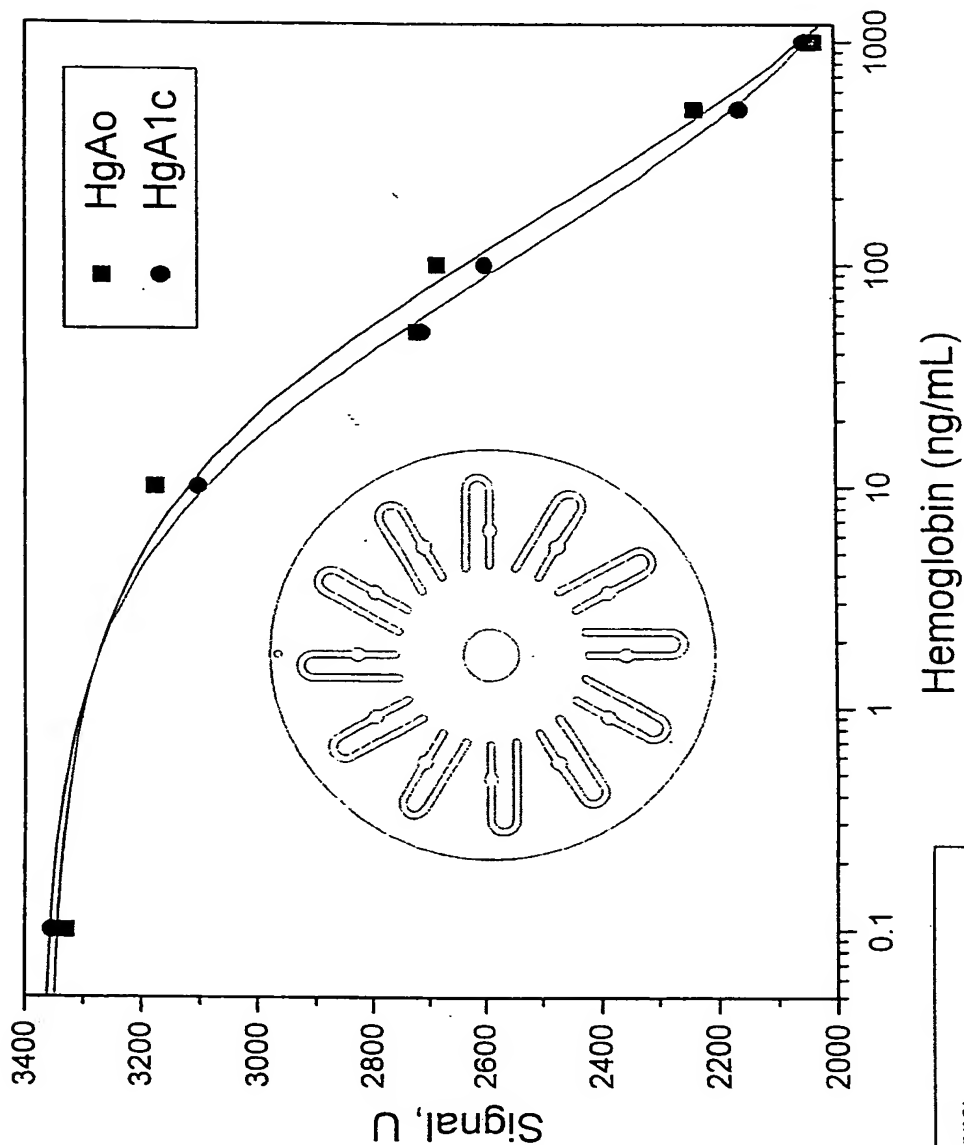


Fig. 36

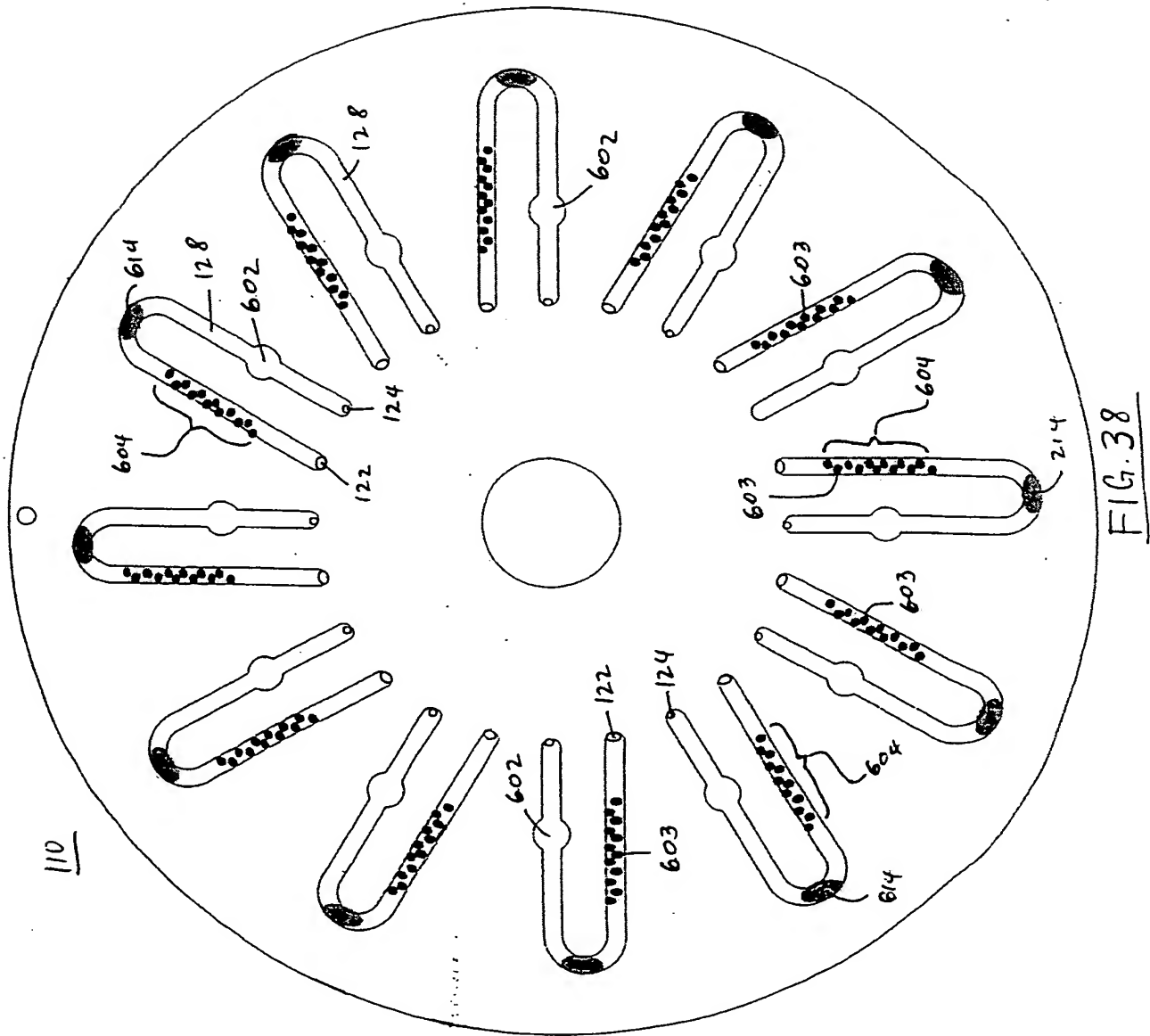
Typical Standard Curves for Non-Glycated Human Hemoglobin (HgAo) and Glycated Hemoglobin (HgA1c) on an Optical U-Channel Disk (BCD™)



Immunoassay Conditions:
Immobilized Haptoglobin on Disk: 100 ng/mL
Dilution of Goat anti-Human Hemoglobin (HRP-labeled): 1 : 4000

N. Staimer
BTI

Fig. 37



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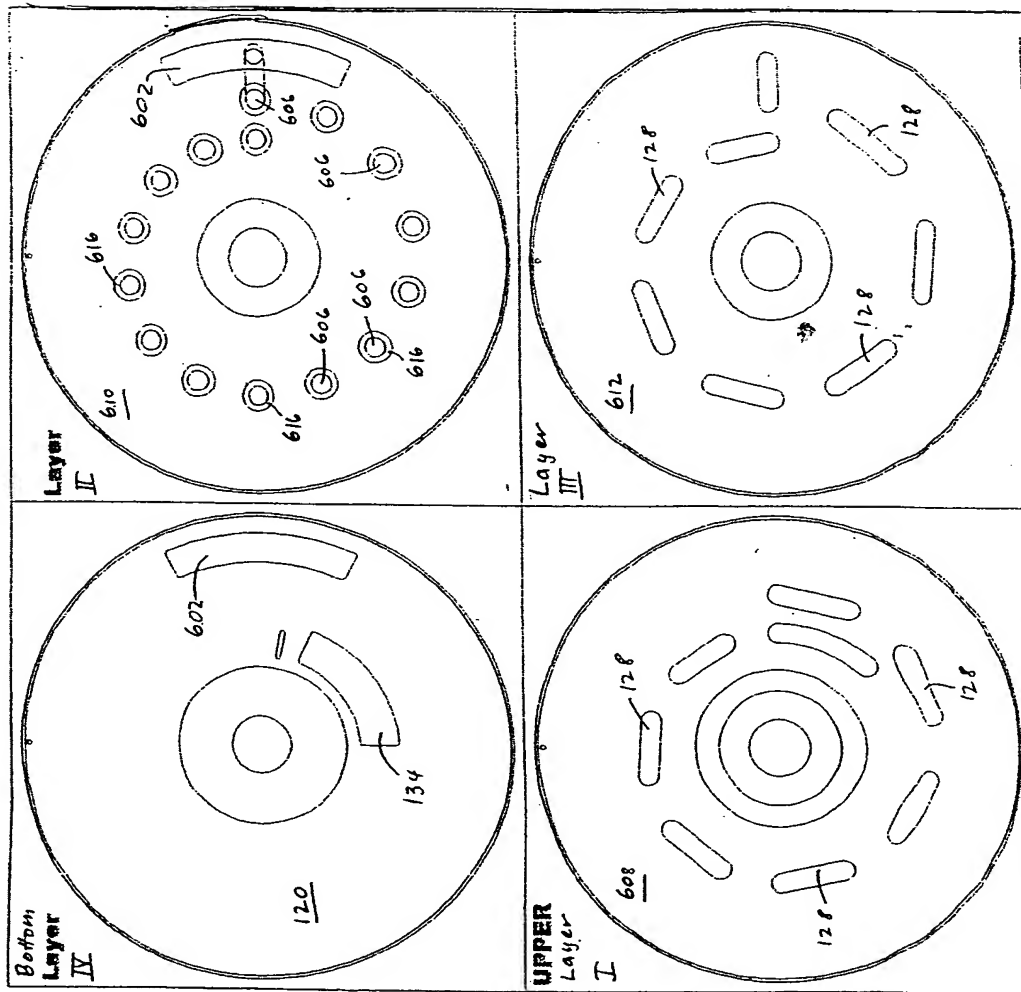


FIG. 39A

Disc Layer Assembly:
(Top to Bottom)
I. Upper channel layer
II. Middle membrane layer
III. Lower channel layer
IV. Bottom substrate layer

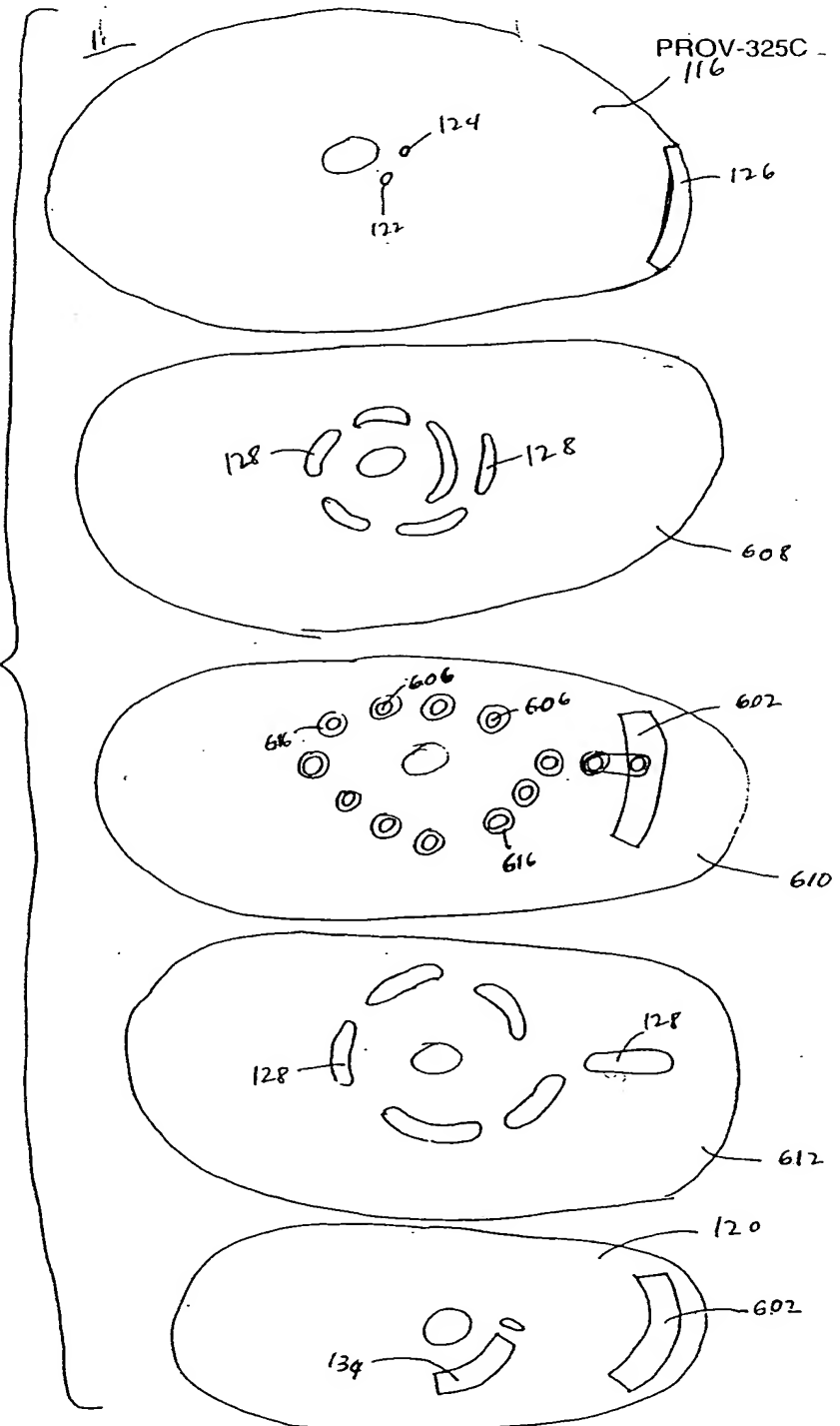
Note: A top most cap layer (116) with the inlet and vent ports is not shown.

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FIG. 39 B



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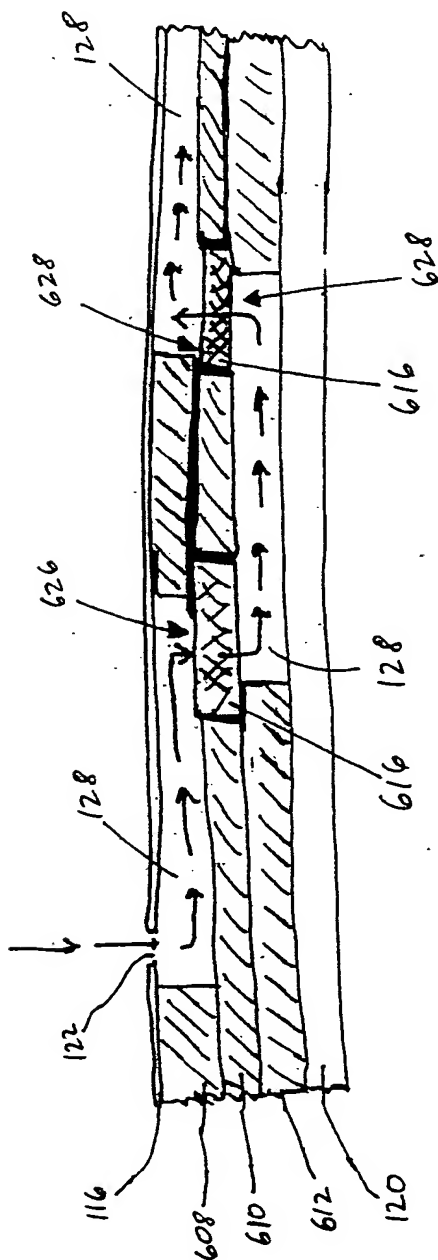


FIG. 39C

OPTICAL BIO-DISCS INCLUDING SPIRAL FLUIDIC CIRCUITS FOR PERFORMING
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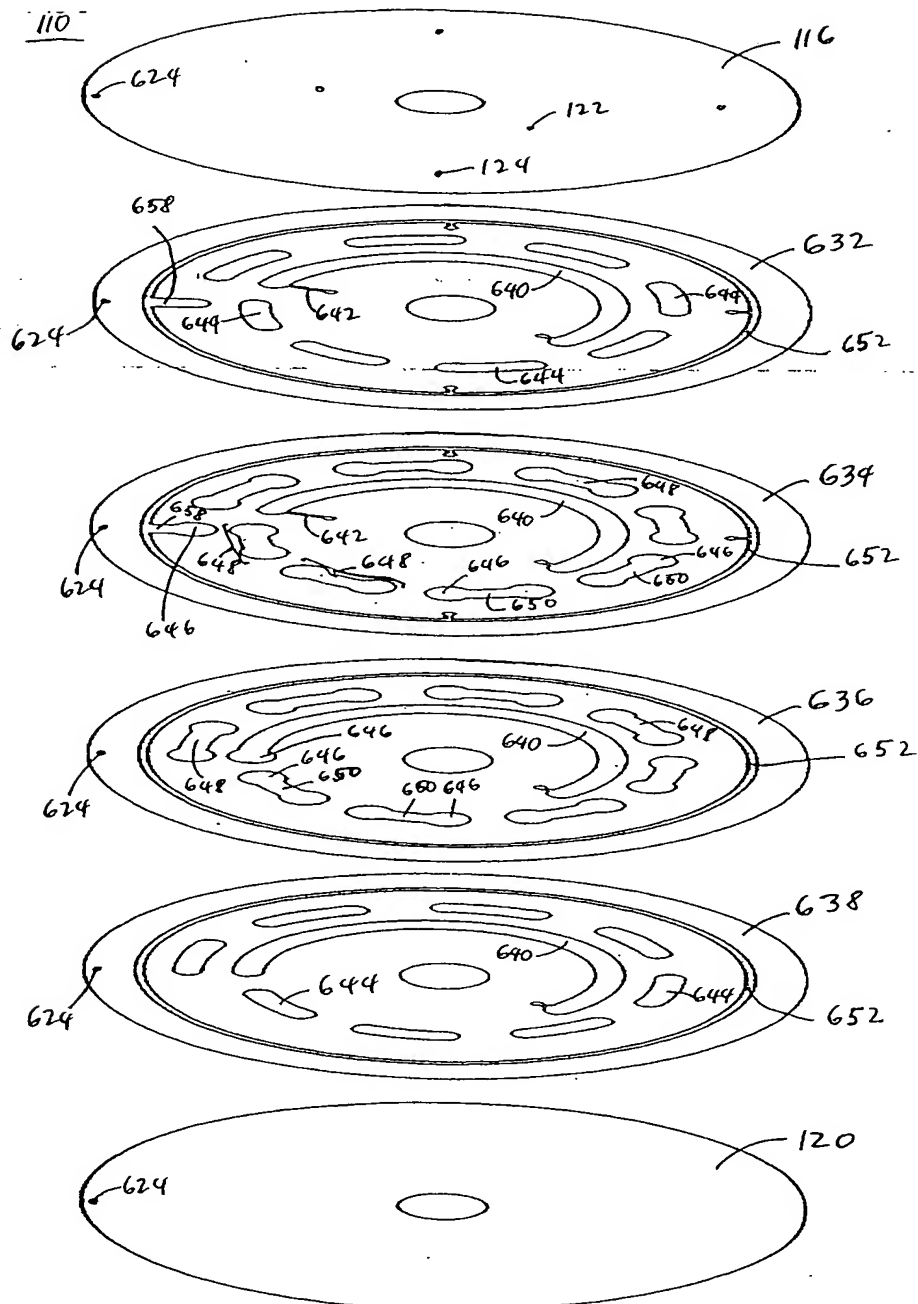


FIG. 40A

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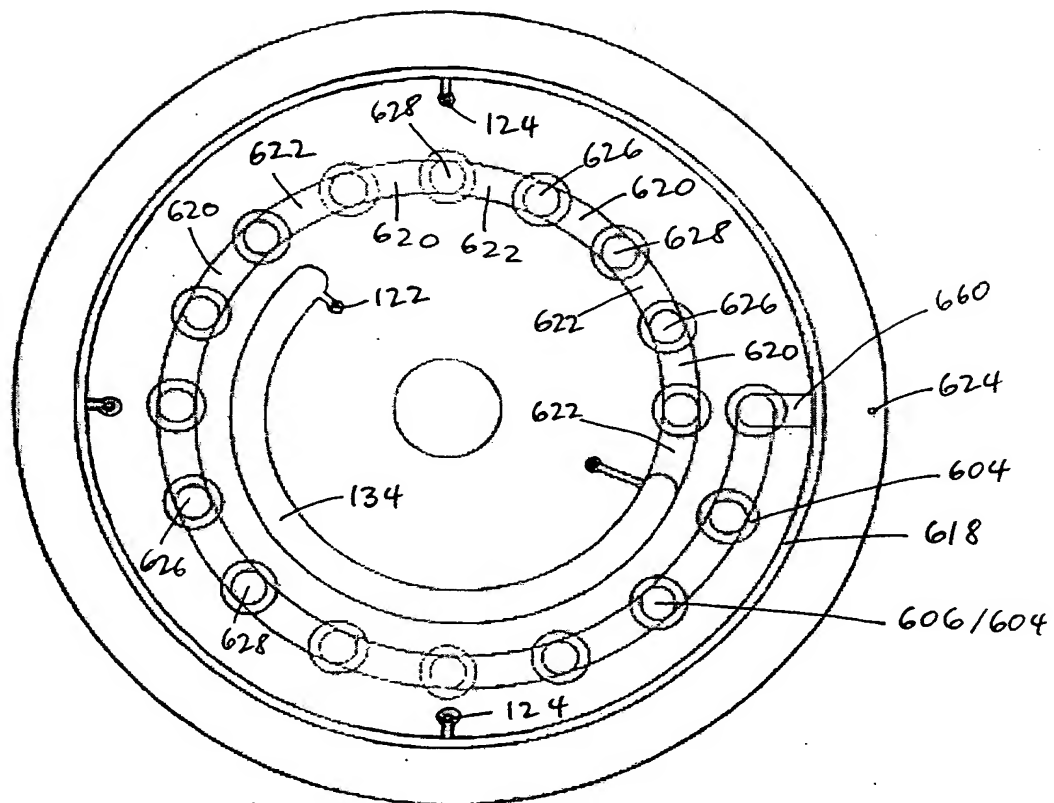


FIG. 40B

OPTICAL BIO-DISCS INCLUDING SPIRAL FLUIDIC CIRCUITS FOR PERFORMING
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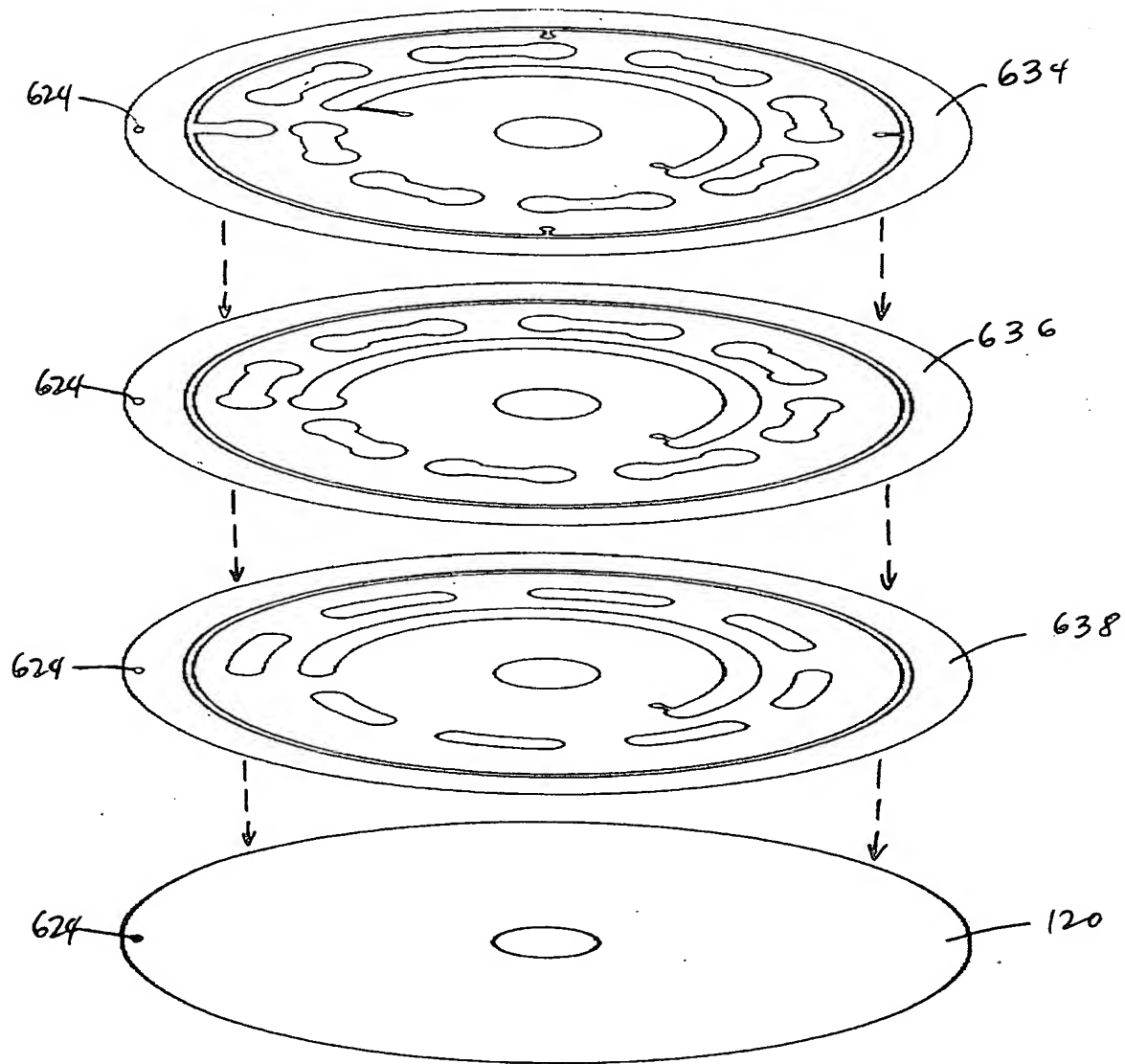


FIG. 41A

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FIG. 41B

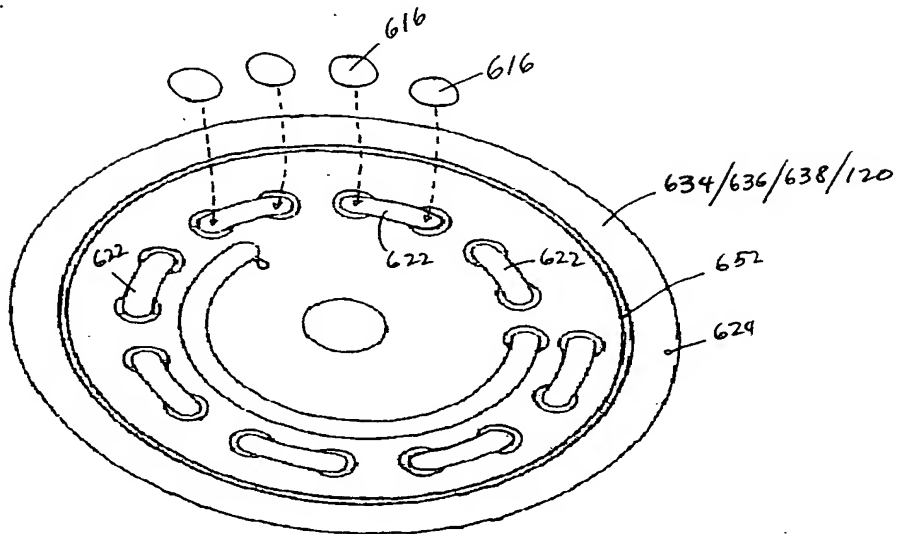
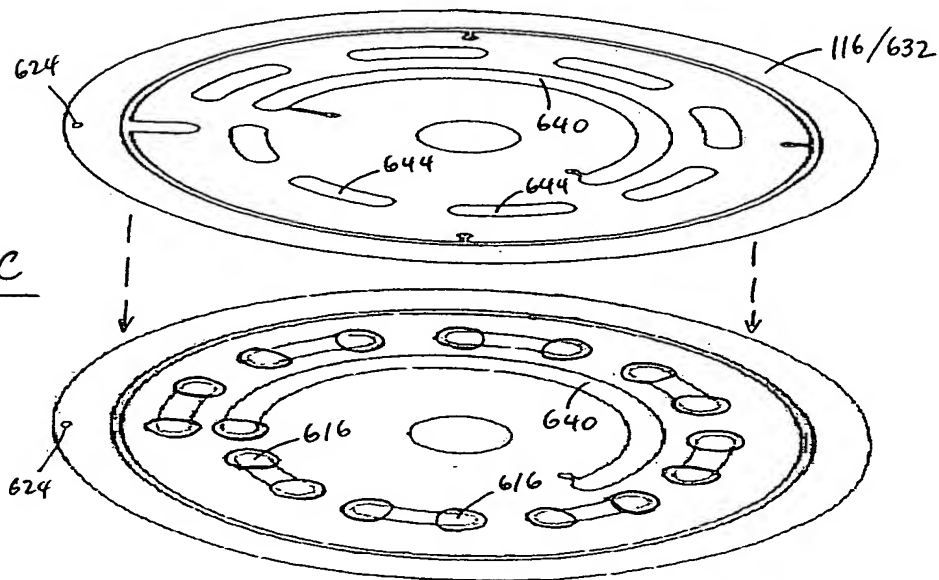


FIG. 41C



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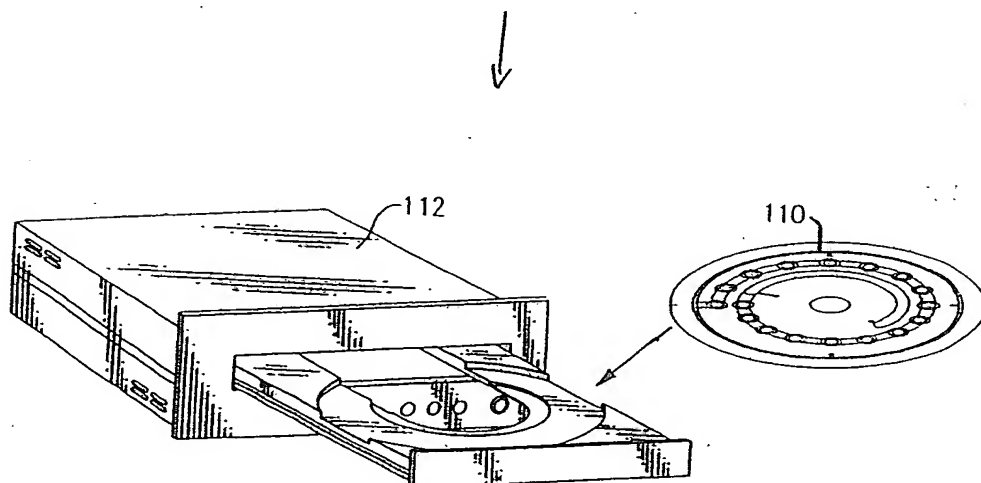
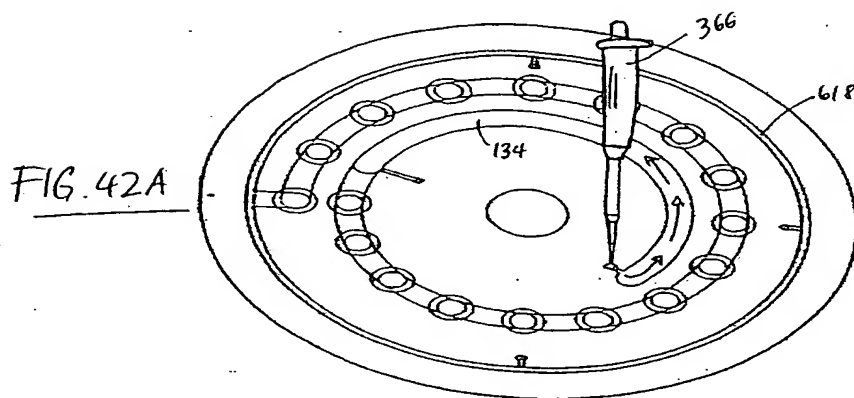
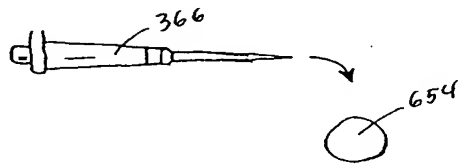


FIG. 42B

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Dry

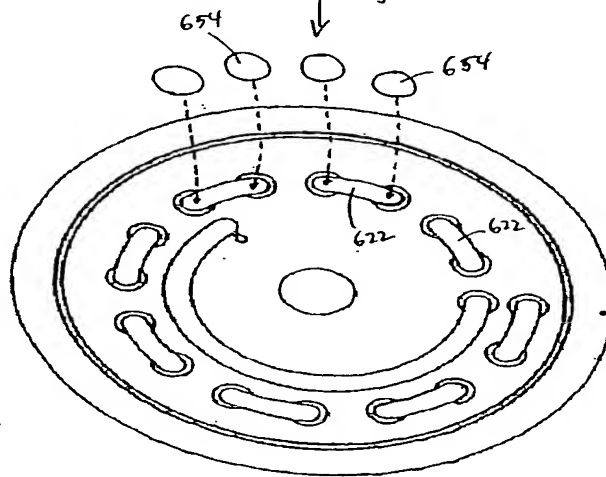


FIG. 43A

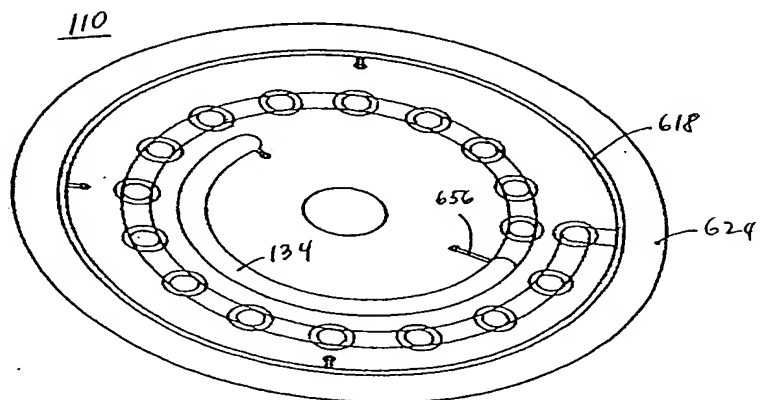


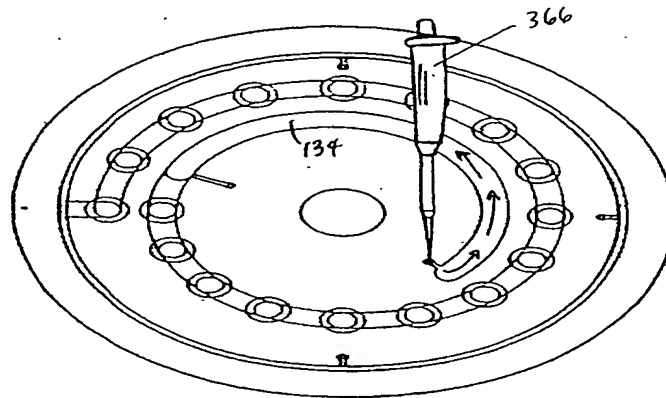
FIG. 43B

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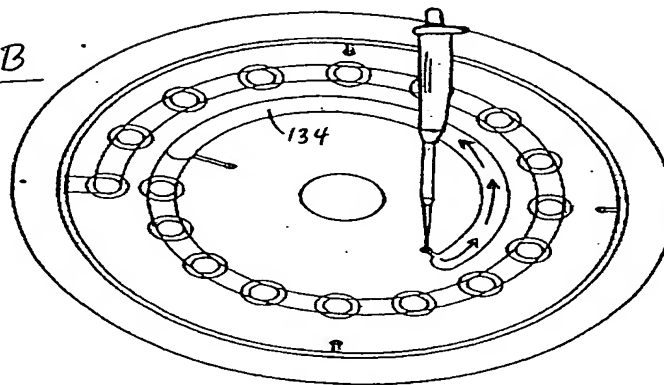
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FIG. 44A



↓ SPIN

FIG. 44B



↓ SPIN

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FIG. 44C

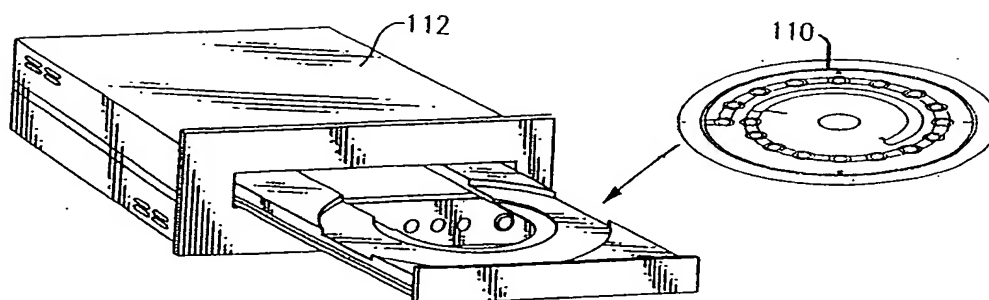
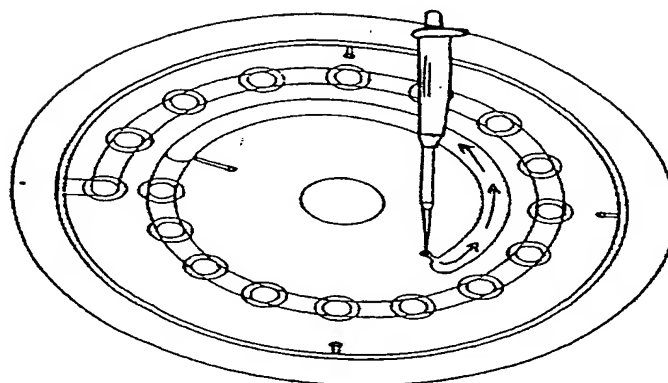


FIG. 44D

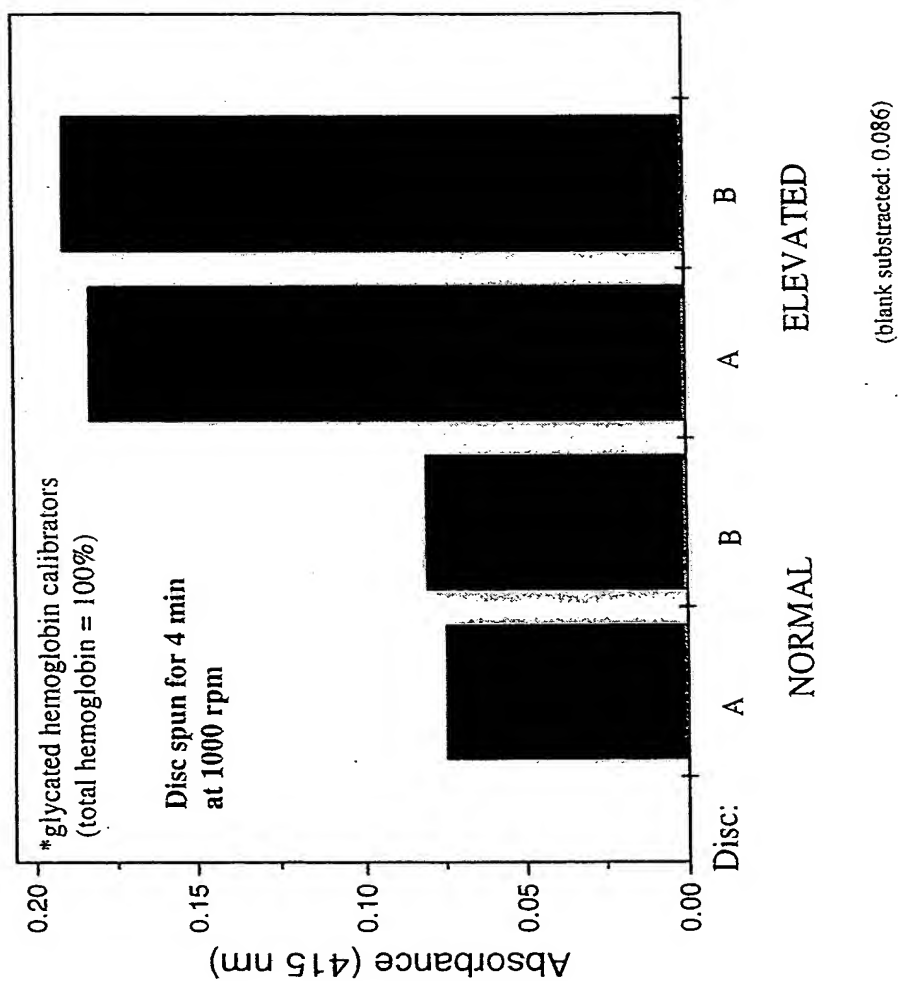


FIG. 45